Welcome to Santa Barbara City College!

We’re Number One!
You have made the outstanding choice to attend the top community college in the nation! In 2013, Santa Barbara City College received the prestigious Aspen Award for its excellence in student success, being recognized as the number one community college in the country out of 1,000 colleges!

Free College Tuition – SBCC Promise!
The SBCC Promise will provide any local high school graduate within the Santa Barbara Community College District with the opportunity to attend SBCC free of charge. Students must commit to a full-time course load over two years. You are in on the ground floor of this, so take advantage of it right now! Find out more at sbccpromise.org.

Career Skills Institute!
Not looking for a college degree but need a little skills boost? Come to the Career Skills Institute! The Career Skills Institute offers more than 40 quick courses lasting hours, not years, in topics such as Responsive Web Design, Setting Up a Blog and Producing a Digital Magazine. You can even get certificates in about 25 topics, which could help you get a job or get promoted! Find out more at sbcc.edu/csi.

Transfer to a Four-Year College or University!
The SBCC Transfer Center provides a variety of services, resources and programs designed to assist you every step of the way in your transfer process. Whatever your transfer destination; University of California (UC) campuses, California State Universities (CSU), California Private/Independent Colleges, or out-of-state universities, the Transfer Center is committed to helping make your transfer goal a reality!

Career and Technical Education!
The Career and Technical Education (CTE) Programs are career-driven approaches that help prepare students for employment directly after they leave SBCC. The instructors have often worked, or are currently working, in the respective field and they tend to make use of hands-on learning and focus on the programs of study. SBCC has over 50 programs, ranging from Automotive to Nursing, with many of the programs offering certificates and degree options.

Looking forward to seeing you around campus!

Dr. Anthony E. Beebe, Ed.D.
Superintendent/President
Santa Barbara City College
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Calendar, 2016-2017

Fall Semester, 2016

August 18 ................................................................. All-Campus Kick Off Day
August 19 ................................................................. Scheduled Faculty Flex Day
August 24–December 12 ............................................ Fall Semester
September 5* ......................................................... Last Day to Drop Classes without “W”
September 7 ............................................................. Labor Day, Holiday
October 23 ............................................................... Last Day to Withdraw from Classes/College
November 11 ........................................................... Veterans Day, Holiday
November 26-28 ........................................................ Thanksgiving Vacation
December 5 .............................................................. Last Day of Instruction
December 7-12 .......................................................... Final Examinations
December 12 ............................................................ Fall Semester Ends
December 14–January 13 .......................................... Winter Vacation
December 25 ............................................................ Christmas Day, Holiday

Spring Semester, 2017

January 1 ................................................................. New Year’s Day, Holiday
January 12 .............................................................. All-Campus Kick Off Day
January 13 .............................................................. Scheduled Faculty Flex Day
January 18 .............................................................. Martin Luther King, Jr. Day, Holiday
January 19–May 14 ................................................... Spring Semester
January 30* ............................................................. Last Day to Drop Classes without “W”
February 12 ............................................................ Lincoln’s Birthday, Holiday Observance
February 15 ............................................................. Washington’s Birthday, Holiday Observance
March 18 ................................................................. Last Day to Withdraw from Classes/College
March 28–April 2 ...................................................... Spring Break
May 7 ................................................................. Last Day of Instruction
May 9-14 ................................................................. Final Examinations
May 13 ................................................................. Commencement Ceremony
May 14 ................................................................. Spring Semester Ends
May 30 ................................................................. Memorial Day, Holiday

*Online services only. Last day for in-person service is September 4 (Fall) and January 29 (Spring).
SBCCD Governing Board

The seven members of the Santa Barbara Community College District Board of Trustees are elected by District voters for four-year terms and represent prescribed areas within the District.

The following dedicated community citizens are currently serving as District trustees (month/year after each name indicates date of initial election/appointment):

- Jonathan Abboud (December 2014)
- Marty Blum (December 2010)
- Marsha S. Croninger (December 2010)
- Veronica Gallardo (December 2012)
- Peter O. Haslund (December 2010)
- Marianne Kugler (December 2012)
- Craig Nielsen (December 2012)
- Anthony E. Beebe, Secretary to the Board (July 2016)

Board members directly represent the people of the District in determining broad general policies and making decisions which govern the total operations of the District and Santa Barbara City College.

The board meets at 4 p.m. on the second and fourth Thursday of each month (unless otherwise announced), and are held in the SBCC MacDougall Administration Center.

The meetings are open to the public.
Administration

Anthony E. Beebe.........................Superintendent/President
Paul Jarrell. Executive Vice President, Educational Programs
Joseph E. Sullivan.......................Vice President, Business Services
Patricia English..............................Vice President, Human Resources
Paul Bishop ........................................Vice President, Information Technology

President’s Office
Anthony E. Beebe.........................Superintendent/President
Jack Friedlander .........................Executive Vice President
Robert Else ..................Senior Director, Institutional Assessment, Research and Planning
Luz Reyes-Martin .....................Director, Communications
Angie Esqueda ................................Executive Assistant to the President and Board
Ellen O’Connor ..........................Interim Director, Athletics

Human Resources
Patricia English..............................Vice President

Business Services
Joseph E. Sullivan..........................Vice President
Robert Morales ..................Director, Administrative Services/Emergency Response
Lyndsay Maas ..........................Controller
James Zavas ..........................Assistant Controller
Nicole Hubert ..........................Student Finance Manager
Tracy Janecek ..........................Payroll Manager
Julie Hendricks ..........................Senior Director, Facilities, Planning and Campus Development
Gaspar Lomeli ..........................Custodial Supervisor
Brad Gyll ..........................Maintenance Supervisor
Mark Broomfield ..........................Grounds Maintenance Supervisor
Marc Sullivan ..................Director, Food Services
Erik Fricke ..........................Director, Security
Paul Miller ..........................Director, Bookstore

Information Technology
Paul Bishop ........................................Vice President
Dan Watkins ..........................Director, Information Technology Infrastructure and Systems
Jim Clark ..................................Director, Information Technology User Services
Jason Walker ..........................Director, Student Technology Support

Educational Programs
Melissa Moreno ..................................Dean
Kenley Neufeld ..................................Dean
Benjamin Partee ..................................Dean
Alice Perez ..................................Dean
Alan Price ..................................Dean
Marilynn Spaventa ..........................Dean
Christopher Johnson ..........................Associate Dean
Andrew Harper ..........................Executive Director, Center for Lifelong Learning
Kendall Harris ..................................Associate Director, Center for Lifelong Learning
Jeanette Chian Brooks ..........................Associate Director, Center for Lifelong Learning
Kathie Adams ..................................Director, Transfer Center
Laura Fariss ..................................Director, Student Health Services
Shelly Dixon ..........................Director, Professional Development Center
Virginia Estrella ..................................Coordinator, MESA
Elizabeth Imhof ..........................Director, Faculty Resource Center
David Wong ..........................Director, Instructional Technology
Claudia Johnson ..........................Director, Dual Enrollment Programs
Saul Quiroz ..................................Director, Financial Aid
Michael Medel ..................................Director, Admissions & Records
Julie Samson ..........................Director, Entrepreneurship Program
Elizabeth Bowman ..........................Director, Library
Judy Osterhage ..................Coordinator, Foster Kinship Care Education
Christopher Phillips ..........................Director, Career Center
Vandana Gavaskar ..........................Director, Cartwright Learning Resources Center
Educational Programs—Instruction
Divisions and Departments Organization

Business Education Division
Melissa Moreno, Dean

<table>
<thead>
<tr>
<th>Department</th>
<th>Chairperson</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting</td>
<td>Cornelia Alsheimer</td>
</tr>
<tr>
<td>Business Administration/Real Estate</td>
<td>Bonnie Chavez</td>
</tr>
<tr>
<td>Computer Applications and Office Management</td>
<td>Mindy Mass/Jennifer Robinson</td>
</tr>
<tr>
<td>Computer Information Systems</td>
<td>Esther Frankel</td>
</tr>
<tr>
<td>Finance, International Business</td>
<td>Julie Brown</td>
</tr>
<tr>
<td>Marketing</td>
<td>Julie Brown</td>
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<tr>
<td>Professional Development Studies</td>
<td>Jill Scala</td>
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Cosmetology Academy
Melissa Moreno, Dean

<table>
<thead>
<tr>
<th>Department</th>
<th>Chairperson</th>
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<tbody>
<tr>
<td>Cosmetology</td>
<td>Michelle Puailoa</td>
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English Division
Alice Perez, Dean

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<thead>
<tr>
<th>Department</th>
<th>Chairperson</th>
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<tbody>
<tr>
<td>English</td>
<td>Barbara Bell</td>
</tr>
<tr>
<td>English Skills</td>
<td>Monica DiVito</td>
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Fine Arts Division—Humanities
Alice Perez, Dean

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<thead>
<tr>
<th>Department</th>
<th>Chairperson</th>
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<tbody>
<tr>
<td>Art</td>
<td>Christopher Bates</td>
</tr>
<tr>
<td>Music</td>
<td>John Clark</td>
</tr>
<tr>
<td>Theatre Arts</td>
<td>Patricia Frank/Michael Gros</td>
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Fine Arts Division—Media Arts
Alice Perez, Dean

<table>
<thead>
<tr>
<th>Department</th>
<th>Chairperson</th>
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<tbody>
<tr>
<td>Film and Media Studies</td>
<td>Nicolas Maestu</td>
</tr>
<tr>
<td>Film and Television Production</td>
<td>Curtis Bieber</td>
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<tr>
<td>Graphic Design and Photography</td>
<td>Linda Lowell</td>
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<tr>
<td>Journalism</td>
<td>Patricia Stark</td>
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<tr>
<td>Multimedia Arts and Technology</td>
<td>Michael Gallegos/Alejandra Jarabo</td>
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Health/Human Services Division
Alan Price, Dean

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<tr>
<th>Department</th>
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<tbody>
<tr>
<td>Addictive Disorders Counseling</td>
<td>Gordon Coburn</td>
</tr>
<tr>
<td>Allied Health/CNA</td>
<td>Michelle Lehne</td>
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<tr>
<td>Allied Health/EMT</td>
<td>Cynthia Bower</td>
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<tr>
<td>Allied Health/Nursing Lab</td>
<td>Cynthia Bower</td>
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<tr>
<td>Early Childhood Education</td>
<td>Julie Smith</td>
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<tr>
<td>Education</td>
<td>Julie Smith</td>
</tr>
<tr>
<td>Health Information Technology/ Cancer Information Management</td>
<td>Denise Harrison</td>
</tr>
<tr>
<td>Medical Imaging Sciences/DMS</td>
<td>Bruce Oda/Danielle Terveen</td>
</tr>
<tr>
<td>Registered (ADN) Nursing</td>
<td>Laura Hill</td>
</tr>
<tr>
<td>School of Justice Studies</td>
<td>Anne Redding</td>
</tr>
<tr>
<td>Vocational Nursing</td>
<td>Ann Marie Kopeikin/Rosette Strandberg</td>
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Mathematics Division
Marilynn Spaventa, Dean

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<tr>
<th>Department</th>
<th>Chairperson</th>
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<tbody>
<tr>
<td>Mathematics</td>
<td>Jamie Campbell</td>
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<tr>
<td>Mathematics 1-4</td>
<td>Bronwen Moore</td>
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<tr>
<td>Modern Languages/English as Second Language Division</td>
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<tr>
<td>Marilynn Spaventa, Dean</td>
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<tr>
<td><strong>Department</strong></td>
<td><strong>Chairperson</strong></td>
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<tr>
<td>English as a Second Language</td>
<td>Robin Goodnough</td>
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<tr>
<td>School of Modern Languages</td>
<td>Dina Castillo</td>
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<tr>
<th>Physical Education Division</th>
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<tbody>
<tr>
<td>Kenley Neufeld, Dean</td>
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<tr>
<td><strong>Department</strong></td>
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<tr>
<td>Life Fitness Center</td>
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<tr>
<td>Physical Education,</td>
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<td>Health Education and Recreation</td>
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<th>Sciences Division</th>
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<tbody>
<tr>
<td>Marilynn Spaventa, Dean</td>
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<tr>
<td><strong>Department</strong></td>
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<tr>
<td>Biological Sciences</td>
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<td>Chemistry</td>
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<td>Computer Science</td>
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<td>Earth and Planetary Sciences/Geography</td>
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<td>Engineering</td>
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<td>Environmental Studies</td>
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<td>Physics</td>
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<tr>
<td>Alice Perez, Dean</td>
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<tr>
<td><strong>Department</strong></td>
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<tr>
<td>American Ethnic Studies</td>
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<tr>
<td>Communication</td>
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<tr>
<td>History</td>
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<td>Middle East Studies</td>
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<tr>
<td>Philosophy</td>
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<td>Political Science/</td>
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<tr>
<td>Economics/Global Studies</td>
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<tr>
<td>Psychology</td>
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<td>Sociology/Anthropology</td>
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<th>Technologies Division</th>
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<tbody>
<tr>
<td>Alan Price, Dean</td>
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<tr>
<td><strong>Department</strong></td>
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<tr>
<td>Automotive Service and Technology</td>
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<tr>
<td>Computer Network Engineering</td>
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<td>Construction Technology</td>
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<tr>
<td>Drafting/CAD/Interior Design</td>
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<tr>
<td>Environmental Horticulture</td>
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<tr>
<td>Marine Diving Technologies</td>
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<tr>
<td>School of Culinary Arts and Hotel Mgmt</td>
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<td>Water Science</td>
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<tr>
<th>Noncredit Programs</th>
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<tbody>
<tr>
<td>Melissa Moreno, Dean</td>
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<tr>
<td><strong>Department</strong></td>
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<tr>
<td>Interim Noncredit Program Coordinator</td>
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<td>Professional Development Center</td>
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<table>
<thead>
<tr>
<th>Department</th>
<th><strong>Dean</strong></th>
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<tbody>
<tr>
<td>Adult Basic Education</td>
<td>Melissa Moreno</td>
</tr>
<tr>
<td>Adult High School/GED</td>
<td>Melissa Moreno</td>
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<tr>
<td>Basic Skills</td>
<td>Alice Perez</td>
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<tr>
<td>Business and Computer Applications</td>
<td>Melissa Moreno</td>
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<tr>
<td>Career Skills Institute</td>
<td>Melissa Moreno</td>
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<tr>
<td>Community Education Center</td>
<td>Melissa Moreno</td>
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<tr>
<td>English as a Second Language (ESL)</td>
<td>Marilynn Spaventa</td>
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<tr>
<td>Green Gardener</td>
<td>Alan Price</td>
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<tr>
<td>Health and Human Services</td>
<td>Alan Price</td>
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<tr>
<td>Parent Child Workshops/Parent Education</td>
<td>Alan Price</td>
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<tr>
<td>Short Term Vocational Training</td>
<td>Melissa Moreno</td>
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<tr>
<td>Student Support Services</td>
<td>Ben Partee</td>
</tr>
<tr>
<td>Technologies, Media Arts and Design</td>
<td>Alice Perez</td>
</tr>
<tr>
<td>Workforce Preparation</td>
<td>Melissa Moreno</td>
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</table>
Educational Programs — Departments and Student Support Services

Christopher Johnson, Associate Dean

Associated Student Government ................................................................. Christopher Johnson, Associate Dean
California Work Opportunity and Responsibility to Children (CalWORKs) ................................................................. Marsha Wright, Director
Cooperative Agencies Resources for Education (CARE) ................................................................................................. Marsha Wright, Director
Disabled Student Programs and Services (DSPS) ................................................................................................. Jana Garnett, Director
Extended Opportunity Programs and Services (EOPS) ................................................................................................. Marsha Wright, Director
Guardian Scholars Program .......................................................................................................................... Marsha Wright, Director/Judy Osterhage, Coordinator
Student Health and Wellness ......................................................................................................................... Laura Fariss, Director
Student Housing ............................................................................................................................................. Christopher Johnson, Associate Dean
Student Life .............................................................................................................................................. Christopher Johnson, Associate Dean
Veterans Services ............................................................................................................................................. Christopher Johnson, Associate Dean

Melissa Moreno, Dean

Dual Enrollment Programs ......................................................................................................................... Claudia Johnson, Director
Entrepreneurship Program ....................................................................................................................... Julie Samson, Director
Middle College ........................................................................................................................................ Melissa Moreno, Dean
Noncredit Programs ................................................................................................................................. Melissa Moreno, Dean
Professional Development Center ........................................................................................................ Shelly Dixon, Director

Kenley Neufeld, Dean

Distance Education ........................................................................................................................................ Kenley Neufeld, Dean
Faculty Professional Development ................................................................................................................ Kenley Neufeld, Dean
Faculty Resource Center .......................................................................................................................... Elizabeth Imhof, Director
Instructional Technology ................................................................................................................................ David Wong, Director
Library .................................................................................................................................................... Elizabeth Bowman, Director
Scheduling Office .......................................................................................................................................... Kenley Neufeld, Dean
Benjamin Partee, Dean

Academic Counseling Center ....................................................... Oscar Zavala, Chair
Academic/Progress, Probation-Disqualification .............................. Benjamin Partee, Dean
Admissions & Records ................................................................ Michael Medel, Director
Career Center ............................................................................. Christopher Phillips, Director
Degree Evaluation/Certification Office ......................................... Benjamin Partee, Dean
Enrollment Services ....................................................................... Vanessa Pelton, Coordinator
Financial Aid/Student Scholarships/Federal Work Study .................. Saul Quiroz, Director
Foster Care and Kinship/Independent Living ................................. Judy Osterhage, Director
Personal Development .................................................................... Benjamin Partee, Chair
Scholastic Standards ..................................................................... Benjamin Partee, Chair
Student Discipline ........................................................................ Benjamin Partee, Dean
Student Grievances ....................................................................... Benjamin Partee, Dean
Student Success and Support Committee ...................................... Benjamin Partee, Chair
Title IX ........................................................................................ Benjamin Partee, Coordinator
Transcript Evaluation/Prerequisite Challenge Office ....................... Benjamin Partee, Dean
Transfer Academy ....................................................................... Angela Warren, Coordinator/Counselor
Transfer Achievement Program .................................................... Kathie Adams, Coordinator/Counselor
Transfer Center ............................................................................ Kathie Adams, Director/Counselor

Alice Perez, Dean

Assessment Center ....................................................................... Sara Volle, Coordinator
The Channels Newspaper ............................................................... Patricia Stark, Faculty Adviser
College Achievement Program (CAP) ............................................ Jody Millward
Honors Program ........................................................................... Melanie Eckford-Prossor, Director
iPATH General Education Transfer Program ................................ Tina Kistler, Director
Learning Resources Center ........................................................... Barb Freeman, Supervisor
Learning Support Services ............................................................. Vandana Gavaskar, Director

Alan Price, Dean

Orfalea Early Learning Center ....................................................... Elisabeth Rizo, Director

Marilynn Spaventa, Dean

Center for Sustainability .............................................................. Adam Green, Coordinator
International Students Program .................................................. Carola Smith, Senior Director
MESA Program ............................................................................ Virginia Estrella, Coordinator
STEM Transfer Program .............................................................. Jan Schultz, Director
Study Abroad ............................................................................... Carola Smith, Senior Director
The College
Santa Barbara City College is a comprehensive community college serving the south coast of Santa Barbara County, with a population of almost 200,000. The college is one of 113 California community colleges organized under the California Education Code. As such, it is subject to the decisions of the California Legislature and, as defined by law, the California Community Colleges Board of Governors. It is also responsible to its local constituency through an elected Board of Trustees, which is the principal policy-making body for the college.

Santa Barbara City College offers an extensive program of postsecondary education that is especially responsive to the needs of adults in the local community. A wide range of associate degree and certificate programs is available, as are transfer programs that provide the first two years of study toward the baccalaureate degree. A variety of general educational opportunities, both credit and noncredit, is also available for persons wishing to develop new or expanded occupational skills, or to broaden their cultural perspectives or artistic talents.

Responding to community needs, the college’s programs address economic development, on-site workforce training, skills enhancement, job training and lifelong learning opportunities. To serve the diverse needs of students, a broad variety of student services is provided, including academic and personal counseling, financial aid, career guidance and maintenance of academic progress records. Special programs are also available for re-entry students, the physically disabled and the economically disadvantaged.

Students of the college are, for the most part, from the local community. However, the college also attracts many students from throughout the state, as well as national and international locations. Students range in age from under 18 to over 80 years and represent a wide range of ethnic groups.

Santa Barbara City College is especially committed to making its educational programs accessible to cultural, ethnic and age groups who have traditionally been underserved by postsecondary education. Means for achieving this goal include outreach, testing and diagnosis, counseling and placement, developmental education and special retention programs, such as peer counseling, tutoring and financial aid.

The college recognizes that the goals of today’s students are as diverse as the students themselves. Hence, SBCC attempts to provide programs compatible with a wide range of goals and to assist in goals clarification when appropriate. Among principal commitments of the college are the broadening of the individual’s view of educational possibilities that are available, and assisting students in formulating and carrying out a plan to achieve selected goals.

Our Mission
As a public community college dedicated to the success of each student...

Santa Barbara City College provides students a diverse learning environment that inspires curiosity and discovery, promotes global responsibility, and fosters opportunity for all.

Our Core Principles
Santa Barbara City College’s core principles guide all aspects of instruction, organization and innovation:

- Student-centered policies, practices and programs
- Participatory governance
- A psychologically and physically supportive environment
- Free exchange of ideas across a diversity of learners
- The pursuit of excellence in all college endeavors

Our Charter
Santa Barbara City College’s mission and core principles honor our commitment to the spirit and intent of the foundational framework of the California Community Colleges, as described in California Education Code §66010.4:

- **Primary Mission**: Academic and vocational instruction at the lower division level; advancement of California’s economic growth and global competitiveness through education, training and services.
- **Essential and Important Functions**: Remedial instruction, ESL, adult noncredit instruction (in areas defined as being in the state’s interest), and student support services.
- **Authorized Function**: Community services courses.

Institutional Learning Outcomes
Santa Barbara City College is committed to ensuring that all students who complete its
programs acquire the core skills and competencies needed to be successful in their academic, career and personal pursuits. The Institutional Student Learning Outcomes state the competencies in General Education and personal and career development that students acquire by completing a program of study at SBCC.

As students follow a program of study at SBCC, they participate in performance assessments through examinations, portfolios and other activities that provide information about their proficiency in each of these outcomes. The data collected are used to document and improve student learning and the attainment of the Institutional Student Learning Outcomes.

I. Critical Thinking, Problem-Solving and Creative Thinking
Students will be able to define issues, problems, assumptions, or questions; collect relevant information in response to a question or issue; analyze and draw valid conclusions from statements, images, data and other forms of evidence; and assess the consequences of their conclusions.

1.1 Define the issues, problems, assumptions, or questions being addressed.
1.2 Collect and analyze data and relevant information including that derived from different sources and alternative research.
1.3 Distinguish facts from opinions and biases.
1.4 Draw insights from multiple reliable sources of information to create solutions to problems and identify possible consequences of those solutions.
1.5 Use valid evidence and sound reasoning to support conclusions drawn about issues, problems, assumptions, or questions.

II. Communication
Students will demonstrate communication skills in reading, writing, listening, and speaking in order to exchange information, ideas, findings, or opinions effectively across disciplines and for varied audiences, with or without assistive devices or persons.

2.1 Read texts (visual, auditory, or tactile) critically in order to participate in academic discourse.
2.2 Employ the conventions of standard English to create original texts that clearly communicate ideas and information.
2.3 Orally communicate clear, well-founded and developed ideas in an organized manner.

2.4 Attend to, interpret, and respond to verbal and nonverbal communication.
2.5 Recognize and interpret forms of visual or observable communication such as images, diagrams, film and video.

III. Quantitative Analysis and Scientific Reasoning
Students will be able to analyze, estimate, use and evaluate quantitative information using words, graphs and symbols, as well as apply scientific methods to questions regarding observable natural, physical and social phenomena.

3.1 Apply quantitative and qualitative skills to the interpretation of data.
3.2 Use graphs and symbols to describe mathematical relationships and to establish sound arguments supported by accurate quantitative evidence.
3.3 Apply mathematical concepts to solve problems.
3.4 Employ scientific methods to form and test hypotheses.
3.5 Distinguish empirical evidence from speculation.

IV. Social, Cultural, Environmental and Aesthetic Perspectives
Students will be able to demonstrate knowledge of significant social, cultural, environmental and aesthetic perspectives.

4.1 Describe how the interaction among social, economic, political, cultural, environmental, and historic factors affects the individual, society and the environment.
4.2 Explain how culture influences different beliefs, practices and peoples.
4.3 Recognize the contributions of fine arts, visual arts, literature and performing arts in influencing the human experience.
4.4 Recognize the social and ethical responsibilities of the individual in society, explaining the value of choosing to interact with respect in differing cultural contexts.

V. Information, Technology and Media Literacy
Students will be able to locate, evaluate, synthesize and use multiple forms of information employing a range of technologies.

5.1 Strategically search for, select, and evaluate multiple formats and sources of information
for their authority, accuracy, credibility and relevance.

5.2 Effectively use technology to find, analyze, integrate, create and communicate information and ideas.

5.3 Critically evaluate how information is created, communicated and valued in textual, visual, aural and tactile formats in different disciplines.

5.4 Identify the legal, ethical, social and economic rights and responsibilities associated with the creation and use of information in various media and formats.

VI. Personal, Academic and Career Development

Students will be able to assess their own knowledge, skills, and abilities; set personal, educational and career goals; work independently and in group settings; and identify lifestyle choices that promote self-reliance and physical, mental and social health.

6.1 Develop, implement and evaluate progress toward achieving personal, academic, career and lifelong learning goals.

6.2 Demonstrate personal responsibility for choices, actions and consequences, including but not limited to attending classes, being punctual, and meeting deadlines.

6.3 Work effectively and civilly with others, respecting cultural, gender, and other group and individual differences.

6.4 Identify and use appropriate resources to find answers, make choices, or solve problems.

Accreditation

Santa Barbara City College is accredited by the Accrediting Commission for Community and Junior Colleges (ACCJC) of the Western Association of Schools and Colleges, located at 10 Commercial Blvd., Suite 204, Novato, CA 94949, (415) 506-0234. The ACCJC is authorized to operate by the U.S. Department of Education through The Higher Education Opportunity Act of 2008. Accreditation materials are available for review on the web at www.sbcc.edu/accreditation and in the Luria Library.

History

Santa Barbara City College was established by the Santa Barbara High School District in 1909, making it one of the oldest community colleges in California. The college was discontinued shortly after World War I, and its work largely taken over by the Santa Barbara State Normal School, which became the Santa Barbara State College and, later, the University of California, Santa Barbara.

SBCC was reorganized by the high school district in the fall of 1946. Called Santa Barbara Junior College from its inception, the Santa Barbara Board of Education formally changed the name to Santa Barbara City College in July 1959.

Also in the summer of 1959, the institution moved to its present and permanent location on the Santa Barbara Mesa, former site of the University of California, Santa Barbara. Situated on a 74-acre bluff, the campus overlooks the harbor and Pacific Ocean. Passage of a 1969 construction bond issue and a 1973 land acquisition bond issue ensured that the college would have a single, consolidated Mesa campus.

In 1965, the Carpinteria Unified School District was annexed to the Santa Barbara Junior College District. That same year, the Santa Barbara Junior College District became a separate governing authority under the control of its own popularly elected Board of Trustees. On July 1, 1971, the name of the district was changed to Santa Barbara Community College District.

Since its reorganization following World War II, college growth has been rapid—both in enrollment and course offerings. Santa Barbara City College currently serves approximately 20,000 students each semester who enroll in credit and noncredit courses for transfer preparation, career education and foundational skills, and an additional 3,800 enroll in fee-based lifelong learning classes each semester.

Location

Students at Santa Barbara City College are privileged to study in one of the most beautiful locations in the world. Santa Barbara is a city of 90,000 people, located on California’s picturesque south-central coast—“where the mountains meet the sea.” Devoid of heavy industry, it is renowned as a cultural and educational center.

Santa Barbara is far enough away from California’s big cities to avoid the characteristic hectic pace and congestion—yet close enough to partake of its many cultural advantages.

Nearly half of Santa Barbara’s streets terminate along one of the nation’s loveliest white sand beaches. Many other roads lead to the gently sloping foothills of the Santa Ynez mountain range, where travelers are treated to superb views of the city and the offshore Channel Islands. Santa Barbara’s early California architecture, abundant flora and mild year-round climate in addition to mountains, sea and sand—make for a unique atmosphere in which to live and study.
In addition to the main campus on the Mesa, Santa Barbara City College has two additional campuses: the Alice F. Schott campus located at 310 W. Padre St., Santa Barbara, CA 93105, (805) 687-0812; and the Selmer O. Wake campus located at 300 N. Turnpike Rd., Santa Barbara, CA 93111, (805) 964-6853.

National Co-winner for Community College Excellence
Santa Barbara City College was the 2013-2015 national co-winner of the prestigious Aspen Institute Prize for Community College Excellence. The college was recognized by The Aspen Institute for its quality and focus in four areas: facilitating underrepresented and minority student success, student learning outcomes, degree completion and transfer rates, and labor market success in securing good jobs after college.

Completion and Transfer Rates
Federal Student Right-to-Know regulations require publication of college completion and transfer rate data. The statewide percentages for all California community colleges, based on the most recent cohort of Fall 2011 students, are:
Completion Rate..............................................27.98%
*Transfer Rate ................................................12.09%
Santa Barbara City College’s rates, based on the most recent cohort of Fall 2011 students, are:
Completion Rate..............................................33.47%
*Transfer Rate ................................................17.87%

*Transfer rates are incomplete since transfer students who also complete degree and certificate degrees are not included in the transfer numbers. See srk.cccco.edu/index.asp for additional information on how these rates are calculated, and the merits and limitations of the measurements.

Student Retention Rate
In compliance with Chapter I of Title 45 of the Code of Federal Regulations, Part 178.4(f), data regarding student retention and enrollment patterns may be obtained by contacting Melanie Rogers, Analyst, Institutional Assessment, Research and Planning, at rogers@sbcc.edu.

Santa Barbara City College Foundation
The SBCC Foundation was established in 1976 to provide Santa Barbara City College with private philanthropic support. The foundation acts in partnership with the college and bridges the gap between available public funding and institutional need, as determined by the college leadership.

Serving as the vehicle through which individuals and organizations may invest in the college, the foundation fuels the educational excellence that has long been the hallmark of SBCC. The SBCC Foundation provides more than $4 million annually for student success programs, scholarships, book grants, and other critical needs of the college in order to support SBCC students as they prepare for careers, transfer to four-year universities, and pursue lifelong learning goals.

Noncredit Educational Programs
Noncredit Educational Programs are designed for students who do not need college unit credits at a particular point in their educational career. The college continues to offer and expand noncredit courses and programs in the following areas: Adult High School/ GED, English as a Second Language, and Short-Term Vocational. These programs provide pathways for students to advance to the credit division of SBCC and/or obtain employment.

Center for Lifelong Learning
The Center for Lifelong Learning (CLL) responds to the diverse lifelong learning needs of the adult Santa Barbara community through promoting knowledge of the arts, healthy living styles, and intellectual studies. The CLL offers classes in art, crafts, cooking, fitness and other personal enrichment subjects. The CLL is independent of state funding, which enables the Center to have much greater flexibility to offer fee-based classes in a wide range of topics and in formats that are responsive to the learning needs in our community. The CLL is a self-sustaining unit of the college, supported through tuition fees, donations and fundraising.

Catalog Updates
Board policies, administrative procedures and regulations, courses and schedules described in this publication are subject to change at any time without prior notice. The college reserves the right to alter fees, statements and procedures contained herein. Further fees and regulations are subject to change at any time by the State Legislature. In addition, administrative procedures may be updated/revised and approved by the Superintendent/President. See the college’s website on Board Policies and Administrative Procedures, www.sbcc.edu/policies, for the most current Board Policies and Administrative Procedures for the college.
It is the student’s responsibility to meet and remain informed of college requirements. When changes occur, they will be printed in the next regular publication of the Catalog or Class Schedule, as well as updated on the college website.

**Public Information**
Requests for documents under the Public Records Act should be directed to the Office of the College Superintendent/President.

**Admissions**

**College Admission**
Admission to Santa Barbara City College is governed by the laws of the State of California and such supplementary regulations as have been prescribed by the Santa Barbara Community College District Board of Trustees. Citizens of other countries and out-of-state residents are required to pay tuition as well as enrollment fees.

**Open Enrollment**
It is the policy of the Board of Trustees of the Santa Barbara Community College District that, unless specifically exempted by statute or regulation, every course, course section, or class, reported for state aid, wherever offered and maintained by the district, shall be fully open to enrollment and participation by any person who has been admitted to Santa Barbara City College and who meets such prerequisites as may be established, pursuant to section 55003 of Division 6 of Title 5 of the California Code of Regulations.

**Graduates of High Schools**
Graduates of high schools, or equivalent, are eligible for admission and may undertake any program of study for which they are prepared.

**Persons 18 years of Age or Older**
Persons 18 years of age or older who have not received a high school diploma, or equivalent, may be admitted to the college if they can reasonably profit from instruction.

**High School Students (9th Grade or Higher): Dual Enrollment Program**
Students enrolled in a public or private school who are eligible for ninth (9th) grade or higher may apply and concurrently register in up to ten (10) units of college-level courses at Santa Barbara City College through the Dual Enrollment Program.

Under the Dual Enrollment Program, seniors may concurrently register in up to twelve (12) units of college-level courses. Course prerequisites apply. Some courses are not available to concurrently enrolled high school students. The student must have a recommendation from his/her principal or high school counselor and a signature from a parent.

In accordance with Education Code Section 76001, special part-time K–12 students enrolled in the secondary schools and attending SBCC (enrolled up to and including 11.9 units) are exempt from paying the enrollment fee. Special full-time K–12 students (12 units and above per semester) may not be exempted from the enrollment fee; they may, however, be individually considered for the BOGW fee waivers, part A, B or C. Those students who do not qualify for a BOGW fee waiver will be required to pay the enrollment fee for all units. All other out-of-state, non-resident and international students must pay tuition unless exempted. High school students who are concurrently registered in courses given on the SBCC campus must pay the transportation and health fees.

Dual Enrollment students must complete an online admissions application at [www.sbcc.edu/apply](http://www.sbcc.edu/apply). Dual Enrollment Approval Forms are available through students’ school counselors, Admissions & Records and online at [www.sbcc.edu/apply](http://www.sbcc.edu/apply). The Dual Enrollment Approval Form must have a signed recommendation from the student’s principal or high school counselor, and signature of a parent. Students attending a 9–12 grade home school must attach a copy of the Home School Affidavit to the Dual Enrollment Approval Form. Contact Dual Enrollment at (805) 898-8174 or for more information visit [www.sbcc.edu/dualenrollment](http://www.sbcc.edu/dualenrollment).

**Middle College**
Through Middle College, a limited number of local high school students who want to earn a high school diploma in the SBCC environment may complete their high school requirements through an Independent Study program while also taking classes at SBCC. The curriculum is rigorous and relevant and, along with individualized support, is designed to help students smoothly transition to college. Acceptance into the program is determined by the on-campus instructors through an application process. Contact Regina Freking at freking@sbcc.edu, or (805) 897-3561.

**Special Students**
Persons less than 18 years of age who do not plan to be enrolled in a secondary school program, and who are
eligible to enter ninth (9th) grade or higher, may petition the Director, Admissions & Records (SS-110), to register as a Special Student. Special application procedures and documentation requirements apply. Petitions must be filed at least fourteen (14) days prior to the start of the semester. Interested persons should contact Director, Admissions & Records, for petition information at (805) 730-4001.

Persons not eligible to enter ninth (9th) grade or higher may petition Director, Admissions & Records (SS-110), to register as a Special Student. Special application procedures and documentation requirements apply. Petitions must be filed at least fourteen (14) days prior to the start of the semester. Interested persons should contact the Director, Admissions & Records (SS-110), for petition information.

Out-of-State Students

Out-of-state students may be admitted to the college on the same basis as California residents except that they will be required to pay tuition, as well as enrollment fees, prescribed by the Board of Trustees to cover the costs of instruction. After a student has been physically present in California for one year and has manifested clear intent to become a California resident, he/she may apply for reclassification as a California resident. State law requires consideration of financial independence for students seeking reclassification. It is the student’s responsibility to substantiate his or her claim for residency. Visit www.sbcc.edu/residency for more information.

International Students:

Other than F-1 or M-1 Visa

Students on visas other than F-1 or M-1 will be evaluated for eligibility to be admitted to register and for residency status based on the type of visa, visa issue and expiration date, length of stay in California and intent to maintain California as their permanent home.

International Students: F-1 or M-1 Visa

Admission Requirements

1. Apply by the following application deadlines:
   
   Fall Semester: June 1*, June 15**
   
   Spring Semester: October 1*, November 1**
   
   Summer Session: April 1*, April 1**
   
   *Out-of-USA applicants
   
   **Current F-1 students in USA

2. Students must be 18 years or older by the time of arrival at SBCC.

3. Confidential Financial Statement: Verification of funds sufficient to cover all expenses while in this country, approximately $24,989 (9 months), or $29,264 (12 months), including Summer (optional) in 2016-2017. An official bank certification letter issued within the past 6 months must accompany the Confidential Financial Statement Form.

4. Transcript of School Records: A complete transcript of all previous high school, English language programs, secondary school and collegiate or university work. Eligibility for admission requires the equivalent of a GPA of 2.5 or better. Transcripts written in a language other than English must be accompanied by an official English translation.

5. All students must take the SBCC English assessment test to determine their level of proficiency in English.

6. All international students are required to purchase the insurance plan approved by the college. No other insurance will be accepted. Students must purchase student insurance at the time of registration. The policy is approximately $1,310 per academic year (subject to change).

7. Submit a transfer form only if you are transferring from a school within the United States where you attended as an F-1 student. See www.sbcc.edu/international. Students who attend a language school prior to transferring to SBCC must maintain an attendance record of at least 85%.

8. A non-refundable $50.00 application fee, which is payable online, is required for processing the application.

Rules and Regulations Governing Enrollment of F-1 or M-1 Students

1. All F-1 and M-1 visa students are required to enroll in and maintain 12 or more units unless they have prior written authorization by the International Student Advisers or the Senior Director of the International Student Support Program. Regular attendance in all classes is required for the duration of the semester. Failure to adhere to the requirements will constitute a violation of visa status. Authorization for reduced course load will be given only in limited circumstances, as specified by federal regulations. When a student has violated the visa status, the student must apply to the Department of Homeland Security for reinstatement. Until the student is reinstated, the student’s ability to travel, to work, or to transfer is impeded.

2. International students cannot depend on employment for financial support while in the U.S. Employment in the U.S. is unlawful unless
it is authorized by the Department of Homeland Security. Students who successfully complete one semester of non-ESL classes at SBCC and maintain 12 units are permitted to work on campus up to 19.5 hours per week, but there are very few jobs available.

3. International students are required to adhere to the same academic standards as other students and shall be subject to the same rules of probation and disqualification. A student who is academically disqualified is in violation of student visa status.

4. International students are required to pay a $261 tuition fee per unit, plus the enrollment fee of $46 (subject to change).

5. International students must attend a mandatory meeting upon arrival to learn about the immigration rules applying to them.

Program Admission—Supplemental Applications
The following instructional programs require supplemental applications, in addition to the general college application.

Cosmetology/Esthetician
Acceptance to the Cosmetology Academy is based on the number of spaces available, the postmark date of the completed application and attendance at an SBCC Cosmetology Academy Orientation meeting. Applications are available from the Cosmetology Academy, 5160 Hollister Ave., Santa Barbara, CA 93111. For more information, contact Ms. Awanda Johnson at (805) 683-4191, ext. 2, or refer to the Cosmetology Academy in the Department and Course Descriptions section of this Catalog.

Honors Program
To be eligible for the honors program students must have a minimum 3.0 cumulative GPA from high school with no grade lower than a “C” in any academic subject. Continuing, returning and transfer students who have completed 12 units or more must also have a 3.0 cumulative GPA, with no grade below a “C” in an academic subject. Students must be eligible for or have completed English 110 and at least Math 107. English and Mathematics placement examinations are part of the SBCC enrollment procedure. Mathematics eligibility for the program may also be met with three years of high school math, including two years of algebra, with grades of “C” or better. It is expected that some potential Honors students will have tested into or satisfied the English 110, Math 117 or 150 by earning a qualifying score on the English AP or IB test or completing English 110, Math 117 or Psychology 150 at SBCC while in high school. These students should contact the Assessment Office for placement.

Applications for the Honors Program and a list of courses offered may be found online at www.sbcc.edu/honorswebsite/honorsapp.pdf or from Dr. Melanie Eckford-Prossor, the Honors Program Director (IDC-311).

Official high school or college transcripts must be submitted with the applications. (Continuing students do NOT need to provide an SBCC transcript.)

Applications will not be accepted unless they are complete: application, transcripts, AP/IB scores if necessary, and writing sample must be submitted to the Director. Once admitted, students must maintain a minimum 3.0 cumulative GPA and complete Honors 100—Colloquium to continue in the program.

For more information, refer to the Honors Program in the Department and Course Description sections of this Catalog.

iPATH General Education Transfer Program
iPATH is a program designed to ease the transfer process for eligible students. iPATH class sizes are small (25-35), with an emphasis on student success. Tutor support, interactive learning and more engagement with your instructor and peers is the iPATH focus. Additional support services, such as academic counseling and career counseling, is built into the program. iPATH courses are all General Education courses taken from the IGETC and CSU GE patterns. For program information, visit www.sbcc.edu/ipath, or call (805) 730-4356.

Learning Communities
For program information and applications, visit www.sbcc.edu/esp, or call (805) 730-4274.

Marine Diving Technologies
Applicants must submit the Application for Diving/Hyperbaric Exposure along with a $50 application fee and Scuba certification card to:

SBCC Marine Technologies Department
721 Cliff Drive, Santa Barbara, CA 93109-2394

Applications are available upon request from the Academic Counseling Center (SS-120). For additional information, contact the Marine Diving Technologies Department, (805) 965-0581, ext. 2426.
Radiographic and Imaging Sciences/
Diagnostic Medical Sonography
Special supplemental application procedures and admission criteria apply to this program. Refer to the Radiographic and Imaging Sciences section of this Catalog for additional information, or contact the Health Technologies Office, (805) 730-4166.

School of Culinary Arts
and Hotel Management
Special supplemental application procedures and admission criteria apply to this program. Refer to the Culinary Arts and Hotel Management section of this Catalog for additional information or contact the School of Culinary Arts and Hotel Management Office, (805) 965-0581 ext. 2458.

School of Nursing: Associate Degree Nursing,
Vocational Nursing, Certified Nursing Assistant, Home Health Aide
Special supplemental application procedures and admission criteria apply to these programs. Refer to the School of Nursing in the Catalog Index for additional information, or contact the Health Technologies Office, (805) 730-4166.

Residence Requirements
Each person applying for admission to, or enrolled in, a California Community College is classified for tuition purposes as either a “resident” or “non-resident” of the State of California. The right of a student to attend any public community college in California as a resident requires that he/she:
1. Be a citizen of the United States, or possess or be an applicant for a permanent-resident, amnesty or other visa status, for a minimum of one year and one day, that does not preclude establishing domicile in the United States and meeting certain requirements.
2. Be at least 19 years of age, and have lived in California one year and one day prior to the residency determination date: Fall 2016—August 21, 2016; and Spring 2017—January 16, 2017. (Note: A student, who has not been a resident of California for more than one year and who is the dependent child for income tax purposes of a California resident who has been a resident since the above-noted residence determination date, is entitled to resident classification. Submit documentation with application.
3. Have parents or a guardian who have resided in California for one year and one day, if he/she is younger than 18 years of age.
4. Present evidence showing the student’s or the student’s parents’ (if under 19) intent to make California their permanent home.
5. Manifest residency intent if the student is 19 years of age or over by maintaining a home in California continuously for the last two years, unless there is contrary evidence of intent.
6. Manifest residency intent, if the student is under 19 years of age, by both the student and his/her parents maintaining a home in California continuously for the last two years, unless there is contrary evidence of intent.

If manifest intent cannot be shown within #5 and #6 above, then the student is required to provide evidence of intent to make California his or her permanent home. Objective manifestations of this intent include, but are not limited to:
1. Payment of California state income tax as a resident.
2. Registering to vote and voting in California.
3. Licensing from California for professional practice.
4. Showing California as the home address on a federal income tax form.
5. Ownership of residential property or continuous occupancy of rented or leased property in California.
6. Possessing California motor vehicle license plates.
7. Possessing a California driver’s license.
8. Maintaining a permanent military address or home of record in California while in the armed services.
9. Establishing and maintaining active California bank accounts.
10. Being the petitioner for a divorce in California.

Military personnel on active duty in California, their spouses and dependent children qualify as immediate residents. (Submit documentation with application.) Other exemptions to tuition for military personnel may be available pursuant to Veterans Access Choice and Accountability (VACA). Contact Admissions & Records for information.

Students on visas will be evaluated for residency based on the type of visa, visa issue date and
expiration date, length of stay in California and intent to maintain California as their permanent home.

A student who cannot qualify as a resident of California must pay non-resident tuition, as stipulated by the Board of Trustees of the Santa Barbara Community College District.

Exemption from non-resident tuition is available to certain non-resident students who attended high school in California for at least three years and received a California high school diploma or its equivalent (per AB 540 statute). Contact Admissions & Records for information and an exemption request form or go to www.sbcc.edu/forms.

Non-resident students do not automatically become residents by being in California for one year. A student seeking reclassification from non-resident to resident status must complete and file a residency questionnaire and a statement of financial independence and must provide evidence of intent to establish permanent California residency prior to the start of the semester in which the student is seeking reclassification. Deadline enforced.

The burden of proof is on the student to clearly demonstrate physical presence in California, intent to establish California residency and, in the case of students changing from non-resident to resident, financial independence from non-resident parents. The Admissions & Records Office shall determine residency of all applicants. Appeals of residency decisions shall be determined by the Chief Student Services Officer or designee.

Enrollment
Registration Procedures
Registration is the process of becoming officially enrolled in college. At Santa Barbara City College, registration for new, transfer and returning students consists of the following steps:

1. Submit an Application for Admission
Applications may be submitted online months (Summer/Fall – January; Spring – early October) before you intend to register. All new, transfer and returning students must submit an application for admission and be admitted to the college before they may register in classes. High school students participating in dual enrollment must complete an Admissions Application and Dual Enrollment Approval Form. Refer to www.sbcc.edu/apply for more information.

Official transcripts of all high school and college work are important documents to have on file for proper counseling/advisement, prerequisite and corequisite review and are required for awarding of degrees. International transcripts must be submitted with an official translation in English.

The following programs ALSO require separate applications or have special admission procedures and/or enrollment deadlines:
- Cosmetology/Esthetician
- Honors Program
- iPATH General Education Transfer Program
- Learning Communities
- Marine Diving Technologies
- Nursing: Associate Degree Nursing, Vocational Nursing, Certified Nursing Assistant, Home Health Aide
- Radiographic and Imaging Sciences/Diagnostic Medical Sonography
- Dual Enrollment and Middle College
- School of Culinary Arts and Hotel Management
- Special Students

For information on:
- Cosmetology, Esthetician Programs, 683-4191
- School of Culinary Arts and Hotel Management, 730-4258
- iPATH General Education Transfer Program, www.sbcc.edu/ipath
- Learning Communities, www.sbcc.edu/esp
- Marine Diving Technologies Program, 730-4226
- Radiographic and Imaging Sciences/Diagnostic Medical Sonography and Nursing Programs, 730-4166
- Dual Enrollment Program, 730-3020
- Middle College, 897-3561
- Special Student Status, 730-4001

When students file their applications with Admissions & Records, they will be given information about the Assessment, Orientation and Advising programs. These programs are provided to help students succeed in reaching their educational goals.

2. Log on to Student Portal—Pipeline
Log on to the student portal—Pipeline at http://pipeline.sbcc.edu. The student portal allows students to manage various college transactions, including but not limited to: checking your pre-registration requirements, viewing your registration appointment day/time, registering, finding your SBCC I.D., adding and dropping classes, paying fees,
**STEPS TO ENROLLMENT**

**APPLY**
Submit application for admission online. www.sbcc.edu/apply

**STUDENT PORTAL – PIPELINE**
Review your pre-registration requirements and registration appointment
day and time. pipeline.sbcc.edu

**FINANCIAL AID**
Apply for Financial Aid (optional). www.sbcc.edu/aid

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**NEW STUDENTS**

Never to college before, or only attended
while in high school and have a goal/plan of:
- Associate Degree or Certificate of Achievement
- Transfer to 4-Year School
- Basic English/Math/Reading Skills
- Undecided Goal

**ORIENTATION (Required)**
www.sbcc.edu/orie

**ASSESSMENT/PREREQUISITES (Required)**
See Assessment page in the Schedule, or refer to www.sbcc.edu/assessment and www.sbcc.edu/prerequisites.

**ADVISING (Required)**
www.sbcc.edu/advising

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**ALL OTHER STUDENTS**

- High School Students
- Attended College Before
- Personal Enrichment/Job Training

*ORIENTATION (Highly Recommended)*
www.sbcc.edu/orie
*New Transfer Students, enrolling at SBCC who previously attended another institution, are required to complete Orientation.

**PREREQUISITES (Required)**
All prerequisites and corequisites are enforced at registration. Check prerequisites in the Schedule of Classes. To satisfy a prerequisite through coursework from other colleges, you must submit a prerequisite verification, www.sbcc.edu/prerequisites. Submit all official transcripts to Admissions & Records. Deadlines apply.

**ADVISING (Highly Recommended)**
www.sbcc.edu/advising

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**ALL STUDENTS**

**REGISTER AND PAY FEES (Required)**
Log on to Pipeline, pipeline.sbcc.edu, and click on the “Student” tab, then click “Registration” to review your registration status and appointment date/time. Select classes. Pay fees. www.sbcc.edu/fees

**TRANSPORTATION, PARKING, HOUSING**
www.sbcc.edu/commute; www.sbcc.edu/housing

**BOOKS**
www.sbccbooks.com

**ATTEND CLASSES**
www.sbcc.edu/attend

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If you do not have access to a computer, wish to conduct college business in person, or just have questions, visit Student Services, SS-110, or call (805) 730-4450 for assistance.
24 Enrollment

seeing grades, activating campus card, and checking your financial aid status and your SBCC e-mail account. All official college correspondence will be sent to your SBCC e-mail account.

3. Apply for Financial Aid
All students are encouraged to apply for financial aid. Santa Barbara City College offers several types of financial aid, which are funded through federal, state and local agencies and the college itself. Refer to www.sbcc.edu/financialaid, as well as the Financial Aid section of this Catalog.

4. Orientation
Orientation is required for all new and new transfer students who have a goal of earning an Associate Degree, Certificate of Achievement, developing basic English/reading or math skills, or transferring to a four-year college or university. All other students are strongly urged to participate in Orientation. By participating in Orientation, students will learn about college services, programs and enrollment procedures. Options for completing Orientation may be found at www.sbcc.edu/orientation.

5. Assessment and Prerequisites
When students file an application for admission to the college, they receive information regarding assessment and prerequisite requirements.

First-time-in-any-college students with goals of Associate Degree, transfer, certificate, or basic English/reading/math skills are required to be assessed in both Math and English or English as a Second Language before enrolling in any classes. All other students are strongly advised to assess prior to enrollment. Assessment may include options other than testing. It is important that students read the list of acceptable Assessment options noted in this section for alternatives to testing. Students seeking to defer or refuse assessment should contact the Assessment Office for procedures. For additional information about testing, call (805) 730-4149. If you have a verified disability that requires accommodation, contact the Learning Disabilities Specialist, (805) 730-4164, to request alternative test-taking arrangements. For information about the English as a Second Language test, call Assessment at (805) 730-4149, or the English as a Second Language Department at (805) 965-0581, ext. 2320.

Prerequisites, Prerequisites Verification and Corequisites
Many courses at Santa Barbara City College have enforced prerequisites or corequisites, which are noted in the Schedule of Classes. All students are required to meet prerequisite and corequisite standards prior to registering in such courses. Prerequisites and corequisites satisfied by SBCC coursework or SBCC assessment will be checked automatically at point of registration. Satisfaction of prerequisites through external course work and/or other means requires submission of a Prerequisite Verification Form. Satisfactory completion of prerequisites and corequisites by internal and external coursework requires a “satisfactory grade”. Satisfactory grades are defined as A+, A, A-, B+, B, B-, C+, C or P (California Code of Regulations, Title 5, Chapter 6, 55000(l).

Verification forms and instructions may be accessed at www.sbcc.edu/prerequisites.

Skills Advisory Recommendations
In addition to prerequisites, many Santa Barbara City College courses have recommended minimum math and/or English advisories, which are noted in the Schedule of Classes. Advisories have been established as a means of alerting students to the minimum standards necessary for class success. Enrollment in such courses is recommended for students who have met the eligibility level prescribed.

Test Availability
Assessment tests are offered many times prior to registration each semester. Testing is available on computer in the Assessment Computer Lab on a drop-in basis. In addition, during the spring months, testing is offered on a variety of Saturdays by appointment. Specific test dates and times are listed at the Assessment website, www.sbcc.edu/assessment. Students who require accommodation for testing should contact SBCC’s Disabled Student Programs and Services (DSPS) to make advance arrangements.

Assessment Options (Testing not required)
Options to Assessment testing are listed below. Students may bring or mail verification to the Assessment Center (Rm. SS-251). To fax proof of an option, use this number: (805) 730-5120. Visit www.sbcc.edu/assessment and click on “Alternatives to Testing” to begin the evaluation and review process prior to enrollment. Note: Test scores
marked with an asterisk below must include submission of an official high school transcript.

**English**
(1) Advanced Placement scores of 3, 4, 5 on the English Literature or Language exams; (2) *A score of 5 or higher on the International Baccalaureate English Exam; (3) *SAT Critical Reading test score of 500, or higher; (3) ACT English test score of 22, or higher; (4) *Proof of AWPE exam passage at UC, or EPT exam passage at CSU; (5) EAP English status of “Standard Exceeded.” *Note: ‘conditional’ status is not acceptable from CSU (EAP acceptance is a pilot program for Summer/Fall 2010–2017); (5) an equivalent English 110 course (Freshman Composition), with a grade of “C” or better; or (6) BA or BS degree from a regionally accredited college or university in the United States.

**Mathematics**
(1) Scores of 3, 4, 5 on the Mathematics-Calculus AB or BC Advanced Placement Exam; (2) a score of 3 on the Advanced Placement Statistics Exam; (3) transcript or grade report which shows an equivalent prerequisite math course from another college, with a grade of “C” or better; (4) qualifying raw score report from an MDTP math test taken at another college; (5) EAP math status of “Standard Exceeded.” *Note: ‘conditional’ status not acceptable at SBCC (EAP acceptance is a pilot program for Summer/Fall 2010-2017); (6) elect to begin at the Math 1, Basic Math level (students must notify a counselor, or Assessment staff for option 6).

**6. Counseling/Advisement**
Advising/Academic Planning is required of all students who have never attended college or attended while in high school, and who plan to earn an Associate Degree, a certificate or transfer to a four-year college. Advising is also strongly recommended for returning students and students transferring to SBCC from another college. Academic Advising/Planning will assist you in:
- Learning about SBCC degree requirements
- Learning about transfer requirements
- Choosing appropriate courses to meet your educational goals
- Interpreting English and math assessment test results
- Understanding prerequisites and skills advisories
- Understanding registration procedures
- Developing a Student Education Plan based on your educational goals, study skills, work and personal responsibilities

If you are transferring from other colleges or universities you should confirm that your official college transcripts are on file with Admissions & Records, by reviewing your Pipeline account prior to meeting with a counselor. Alternatively, you may bring unofficial copies to the advising session.

**7. Register in Classes**
Following Assessment, Orientation and Advising, students will have sufficient information to register in classes. Registration is available online and in person in Admissions & Records (SS-110). Priority registration requires an assigned appointment, which is visible in the student portal—Pipeline. No appointment is required during open registration.

During the first two weeks of the semester (first week in Summer) (see each course reference number at www.sbcc.edu/classes for deadlines), students may make changes and/or add courses to their schedule with permission from the instructor.

**Late Registration**
Once a class closes or the registration period concludes, classes may only be added by obtaining permission from the instructor through the last day to add deadline.

1. Full semester-length Fall/Spring classes must be added with instructor permission and add authorization code by the end of the second week of the semester.
2. Fall/Spring courses less than full semester in length and all Summer courses must be added prior to the 20% length of the class. Find the last day to add by clicking on the CRN from the semester web schedule of classes.

An instructor may refuse to admit a late registrant when the total number of class hours missed by the student exceeds the number of hours the class meets in one week; when the work missed cannot be made up; when the class is full; or when normal progress in the course would be impossible or unsafe. Special instructions for late registration are available from Admissions & Records.

Students who miss the last day to add deadline for a course due to extenuating circumstances may submit a Petition for Late Add to Admissions & Records. In order to be eligible for consideration of a late add, a student must have begun attending the course prior to the last day to add deadline. Instructor approval and signature is required for consideration. The final
26 Enrollment

Deadline to submit a Petition for Late Add is the end of the 4th week of the semester for full semester-length classes (25% length of the class for classes less than full semester in length).

Throughout the enrollment process (including class adds, drops, and withdrawals), certain deadlines are established. These deadlines are necessary in order to comply with State of California attendance regulations and must be complied with by all students. Failure to comply with these deadlines may mean that the student will not be registered and will not receive credit for, or be allowed to attend, classes.

8. Final Steps

Paying Fees
Students are encouraged to pay fees at time of registration. Payment must be received within seven (7) days of registration or students may be dropped for non-payment. Students will not be dropped for non-payment after instruction has begun. As the student, you are responsible for dropping classes by the stated deadlines. If you register in a class and later change your mind, it is your responsibility to drop the class. Students finding it difficult to pay enrollment fees should visit the Financial Aid Office at (SS-210) or go to www.sbcc.edu/financialaid before registering for classes. All fees are subject to change without notice. Refer to the Fees and Refunds section of this Catalog.

Secure Student Identification Card and Arrange Transportation, Parking and Housing
The SBCC photo I.D. card provides access to college services, including computer labs, library and learning resources center, and serves as a student MTD bus pass for those taking credit classes on the SBCC campus. Additionally, you may select to use your SBCC photo I.D. as a Campus Card, which may be used as a cash card for select campus services. Obtain your SBCC photo I.D. card in Admissions & Records (SS-110). Photo I.D. is required prior to issuance of the SBCC photo I.D. card.

The Office of Student Life (Campus Center, Room 217) maintains listings of available rooms, apartments, and room and board situations in the community. For housing information, go to www.sbcc.edu/housing.

Parking permits are required in order to park vehicles on campus, with the exception of Pershing Park. Parking fines will be issued for parking violations. For parking and transportation information, go to www.sbcc.edu/commute.

Purchase Books
Students are expected to purchase all textbooks, supplies and uniforms, as needed for instruction. Most materials may be purchased through the Campus Bookstore. Textbooks may be purchased or reserved for pickup at www.sbccbooks.com.

Class Attendance
The last step of enrollment will be completed upon attendance at the first class meeting. Students who are not in attendance at the first class meeting are considered “no-shows” and the instructor may drop such persons in order to give their seats to non-registered students seeking to enroll. Also, an instructor may withdraw a student from semester-length courses at any time for excessive absence through the 9th week of the Fall/Spring Semesters, and 60% point of the class for Summer and courses less than a semester in length. As a guideline, absence is considered excessive if a student misses three (3) class meetings or the equivalent of one week of class attendance, or according to absence guidelines as published in the course syllabus.

Absence due to a verified illness may be accepted as an excused absence for a limited period of time. Students are expected to notify their instructor by e-mail and/or phone message if they are absent for a medical reason. Students are expected to make appointments for medical and dental treatments at times other than when classes are scheduled. Students anticipating or encountering extended absences due to medical, personal or family emergencies should contact the Dean, Educational Programs—Student Support Services, Room SS-260, ext. 2278.

It is the student’s responsibility to officially withdraw by stated deadlines either online or in person in Admissions & Records. Students failing to officially withdraw by the deadline may receive an “F”, “FW” of “NP” grade.

For detailed information regarding the steps to enrollment for SBCC Noncredit Educational Programs, visit www.sbcc.edu/apply. These processes were still under development at the time of Catalog publication.

Noncredit Course Registration
Online registration for Noncredit Educational Programs is available approximately two weeks to one month before classes start. Class registration is on a first-come, first-served basis, and no visitors or auditors are allowed. If a class is full, students are encouraged to show up to the first class meeting in case of no-shows.
A student who does not attend the first meeting of a class may be dropped. If any seats are unclaimed on the first day of a class, walk-in students may then register.

_Late Adds_
A student may enroll in a class after it has begun if: (1) space is available, (2) the instructor permits the late enrollment and (3) the student completes the online application for admission and full registration procedure. See your instructor.

_Dropping a Class_
Students who decide not to attend class must drop themselves from the class. To drop, log on to [http://pipeline.sbcc.edu](http://pipeline.sbcc.edu), select “Registration” and then select “Register, Add or Drop Classes.” Follow the instructions on the Add/Drop Classes page for dropping a class.

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**Fees and Refunds**

Students are encouraged to pay fees at time of registration. Payment must be received within seven (7) days of registration or you may be dropped for non-payment. Students will not be dropped for non-payment after instruction has begun. As the student, you are responsible for dropping classes by the stated deadlines. If you register in a class and later change your mind, it is your responsibility to drop the class. Students finding it difficult to pay enrollment fees should visit the Financial Aid Office at (SS-210) or go to [www.sbcc.edu/financialaid](http://www.sbcc.edu/financialaid) before registering for classes. All fees are subject to change without notice.

**Non-Resident Tuition**

Tuition for out-of-state and international students is $261 per unit. International Students may be required to pay additional fees. Go to [www.sbcc.edu/international](http://www.sbcc.edu/international) for more information.

**Student Enrollment Fee**

Santa Barbara City College charges a required enrollment fee of $46 per unit. The State of California, through its Board of Financial Assistance Program, has provided fee credits, fee waivers, or special Board of Governors waivers to help defray the cost of the Student Enrollment Fee. Information regarding fee credits, fee waivers, or Board of Governors waivers should be obtained from the Financial Aid Office, Room SS-210, several days before a student enrolls in classes.

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**Tuition/Enrollment Fee Refund**

Both tuition and the enrollment fees will be refunded by course deadlines. Check your Schedule/Bill for deadline dates. Refunds are not automatic. For additional information on refunds, go to [www.sbcc.edu/fiscalservices/cashier](http://www.sbcc.edu/fiscalservices/cashier). A $10 per semester processing charge will be deducted from enrollment fee refunds. (This charge does not apply to classes cancelled by the college.)

If classes are dropped after the first two weeks of the semester, the following fees are not eligible for a refund: Health Services, Student Representation, Transportation and Student Activity. Parking Permits must be returned intact to the Cashier’s Office (SS-150) prior to the first days of the session for a refund.

**Health Services Fee**

All students pay a required health services fee of $19 per Fall and Spring semester and $14 per Summer Session.

**Parking Fees**

Any student who intends to park a vehicle on campus must register his/her vehicle and purchase a parking permit. Parking permits are not required for mopeds and motorcycles. Permits should be purchased online through Pipeline at a discounted rate. Prices includes shipping, handling, postage and applicable credit card processing fees.

All Day/Evening permits are $33.25 per semester. Board of Governors Grant Waiver students are eligible for a reduced All Day/Evening permit of $23.25 per semester. Evening-Only permits are $18.25 per semester. Permits for Summer Sessions are $18.25. Parking permits are non-transferable, and parking fees are only refundable to students who return permits prior to the first day of the semester. Lost/stolen permits are not replaced. Purchasing a parking permit does not guarantee a parking space.

Parking permits may be purchased online at [http://pipeline.sbcc.edu](http://pipeline.sbcc.edu).

**Student Transportation Fee**

All students are required to pay a “Student Transportation Fee” during registration. This fee is $31.00 per semester for students enrolled in 6 units or more; $30.00 for students enrolled in fewer than 6 units for Fall and Spring; and $14.00 for Summer Session. The Student Transportation Fee entitles a student to unlimited use of local community bus service. Your
SBCC I.D. card with the current semester sticker is your pass. Fall Semester passes are valid 7 days prior to the start date of fall classes until 7 days before the start of spring classes. Spring Semester passes are valid 7 days prior to the start of spring classes until the last day of final examinations for spring. Summer passes are valid 7 days prior to the start of the Summer Session until the last day of final examinations for the session. Students enrolling only in distance learning or off-campus classes are exempt from paying the Transportation Fee. The fee is refundable to students who withdraw from all classes prior to the first day of the semester, provided the student photo I.D. card is returned.

Textbook/Lab Supplies
Students are expected to purchase all textbooks, supplies and uniforms, as needed for instruction. Some materials may be purchased through the Campus Bookstore. In laboratory courses, students are charged for the actual cost of items lost or broken.

Instructional Materials Fees
Students may be required to provide instructional materials for a credit or noncredit course. Such materials shall be of continuing value to a student outside of the classroom setting. Visit the Schedule of Classes at www.sbcc.edu/classes to see which courses require instructional materials fees and see Board Policy and Administrative Procedure 5031 Instructional Materials Fees at www.sbcc.edu/policies.

Student Activity Fee
Students are expected to pay a Student Activity Fee at the time of registration. The fee of $10.00 for both Fall and Spring, and $5.00 for Spring only entitles the student to free admission to numerous college events, in addition to discounts from the Bookstore and businesses in the community. A student activity sticker is affixed to the student photo I.D. card. Duplicates will not be issued for cards misplaced or stolen. The fee is only refundable to students who withdraw from all classes prior to the first day of the semester. The student photo I.D. card with activities sticker must be returned.

Student Representation Fee
The $1.00 Student Representation Fee provides support for students and/or representatives who state positions/viewpoints before city, county and district governments and before offices/agencies of state and federal governments. A refund may be requested, after registration by going to the Associate Dean, Educational Programs—Student Support Services, CC-222, with proof of payment.

Financial Aid
Santa Barbara City College offers several types of financial aid which are funded through federal, state and local agencies and the college itself. The major categories include:

- **Grants.** These awards are based on financial need and do not require repayment. Some grant programs have lifetime limits.
- **Loans.** Such awards must be repaid after the student leaves school or drops below half-time enrollment. Most have a low rate of interest. Some features of the loan program are limited based on how long a student is pursuing a particular program of study.
- **Employment.** This type of award is based on financial need and provides the student with an opportunity to earn money for school through employment with participating Federal Work Study employers.
- **Scholarships.** These awards are based on scholastic achievement and/or financial need and/or student activity involvement. They do not require repayment.
- **Special Programs.** Some students qualify for benefits through the Veterans Administration, California State Department of Rehabilitation and Bureau of Indian Affairs, among others. Eligibility requirements vary.

For additional information and the most recent updates, refer to www.sbcc.edu/financialaid.

Where Do You Go to Apply?
Financial aid information and application forms may be obtained from Santa Barbara City College’s Financial Aid Office, Room SS-210, in the Student Services Building or go online to www.sbcc.edu/financialaid/downloadable_forms.php. You may apply for federal financial aid online at www.fafsa.ed.gov.

When Do You Apply?
Students should apply beginning in January for the following Fall Semester. Priority for aid will be given to students who apply early. Once your financial aid requirements are satisfied, you will receive an aid offer based on your eligibility. If you apply late or complete your Financial Aid application late, your application will
be treated on a “first-come, first-served” basis. If you do not qualify for financial aid or if your verification is not complete when classes start, you will be responsible for paying your tuition and fee charges.

There are various financial aid deadlines throughout the year. Check the financial aid website for a complete listing of deadlines: www.sbcc.edu/financialaid.

Board of Governors Fee Waiver (BOGW)
California community college students are charged an enrollment fee. However, there are fee waivers available for qualified California residents and AB540 classified students through the Board of Governors Fee Waiver Program.

Students may be eligible for a Board of Governors Fee Waiver (BOGW) if (1) you or your family are receiving Temporary Assistance for Needy Families (TANF), General Assistance, or Supplemental Security Income (SSI) or State Supplemental Program (SSP) aid; (2) you are qualified for and are receiving other financial aid; (3) your family’s income meets the established guidelines; or (4) you qualify under Special Classifications Enrollment Fee Waivers; see questions on the BOGW.

Applications and BOGW-related information are available in the Financial Aid Office, Room SS-210, or download the application at www.sbcc.edu/financialaid. Go to www.sbcc.edu/financialaid/bogfw.php for updates on BOGW fee waiver program beginning Fall 2016.

Pell Grants
A Pell Grant is money the U.S. federal government provides for students who need it to pay for college. It is an entitlement (awards are guaranteed if criteria are met) and Federal Pell Grants are limited to students with financial need, who have not earned their first bachelor’s degree or who are enrolled in certain post-baccalaureate programs through participating institutions.

The actual amount of your grant is determined by your estimated family contribution, the total cost of attending college and your enrollment status. Pell Grants have a lifetime limit of six years of full-time attendance.

After your application is processed, you will receive a Student Aid Report (SAR), which constitutes official notification of your expected family contribution (EFC). The lower the EFC, the higher your award will be.

Supplemental Educational Opportunity Grants (SEOG)
The SEOG is a federal grant designed for students with financial need who receive the Pell Grant. Funds are limited.

Extended Opportunity Program and Services (EOPS)
EOPS is intended to provide special support services to students with extreme financial need and a history of being economically and educationally disadvantaged. To be eligible for EOPS, a student must:
- Be a California resident;
- Be enrolled as a full-time student (12 units or more per term);
- Have fewer than 70 units of degree-applicable college credits;
- Qualify to receive a Board of Governors Fee Waiver under either Method A or B; and
- Be educationally disadvantaged.

Student Loans
These loans are available to students who are enrolled at least half-time. The Federal Government may pay interest on subsidized loans during the in-school period and during the grace period following the student’s termination or graduation. The grace period is for six months. The student is responsible for paying the interest on unsubsidized loans during the in-school and grace periods. Students are eligible if they meet the Department of Education’s criteria, as listed with the Financial Aid Office. Some features of the loan program are limited based on how long a student is pursuing a particular program of study.

Federal Work Study (FWS)
FWS is a program financed by both the Federal Government and Santa Barbara City College (or some other local nonprofit agency) and is designed to provide part-time employment for students in financial need to continue their educational training.

Whenever possible, students are assigned to work situations which further their educational growth and which also are of value to the college or off-campus agency. Students must be enrolled and be eligible for financial aid.

As with other financial aid, the Work Study award is determined by the Financial Aid Office at a limit that cannot be exceeded. Thus, if you have a $2,700 FWS award, once you earn the $2,700, regardless of the
number of hours worked, you cannot continue to be employed under FWS. Funds are limited.

**Scholarships**
Scholarships are funded by gifts and endowments from private individuals, corporations, community organizations, and foundations. Scholarships are awarded based upon academic achievement, financial need, as well as other scholarship specific requirements/qualifications.

The scholarship application opens on January 1st and closes on March 2 of each year. For more information, please visit the scholarship webpage at [www.sbcc.edu/financialaid/scholarships_sbcc.php](http://www.sbcc.edu/financialaid/scholarships_sbcc.php).

**Packaging**
The practice of offering two or more types of aid to a student is known as packaging. A typical package would include aid from at least two of the following sources: grants, employment or loans.

The package or award offer is designed to meet all or part of a student's established need for financial assistance. The uniform application of packaging policies ensures that each eligible applicant will receive the most advantageous combination of financial aid monies available at the time eligibility is determined.

Packaging policies take into consideration not only the unique needs of each aid applicant, but also emphasize the order in which different funding sources are included in each financial aid package. The initial source of funding considered for all applicants is grant aid. If needed, the second source of funding considered is employment aid. The last source of funding considered in the packaging process is loan aid.

**Disbursement**
In order to receive a disbursement, a student must have a completed application/file and be enrolled in the required number of units.

Most aid is distributed on a two-payment per semester basis. Normally, the first payment may be expected immediately prior to the first week of each semester, and the second payment at the end of the fifth week.

Student loans are disbursed in accordance with procedures set forth by federal regulations.

Federal Work-Study recipients will be paid once a month.

**Student Consumer Information**
Financial aid information included here is limited. Additional information on all financial aid categories is available upon request at Santa Barbara City College's Financial Aid Office, Room SS-210. SBCC's Financial Aid Policies and Procedures are also available at [www.sbcc.edu/financialaid](http://www.sbcc.edu/financialaid).

**Satisfactory Progress Standards**
Federal regulations mandate that all institutions of higher education establish minimum standards of “satisfactory academic progress” for students receiving financial assistance.

All students who apply for and receive financial assistance are expected to meet the academic standards described in Santa Barbara City College's [Financial Aid Satisfactory Academic Progress Policy](http://www.sbcc.edu/financialaid/downloadable_forms.php). Copies of the Financial Aid Satisfactory Academic Progress Policy are available in the Financial Aid Office, Room SS-210. The Satisfactory Academic Progress Policy is also available at [www.sbcc.edu/financialaid/downloadable_forms.php](http://www.sbcc.edu/financialaid/downloadable_forms.php).

**Student Budgeting**
When Santa Barbara City College uses the term “student budgeting,” it refers to the amount of money necessary to complete an academic year with a modest, but adequate, standard of living. A budget does not take into consideration all of the situations in which students find themselves, and it presumes reasonable consumer choices on the student's part.

Student budgets reflect SBCC estimates for the 2016-2017 college year. This information is available at [www.sbcc.edu/financialaid](http://www.sbcc.edu/financialaid). These guidelines will better prepare you to plan the financing of your education.
Examples of 2016-2017 Student Budgets

I. Dependent Living at Home with Parents: 9 Months

- Registration Fees* .................................................. $1,388
- Books and Supplies .................................................. $1,792
- Room and Board ..................................................... $4,968
- Personal Expenses .................................................. $3,178
- Transportation ....................................................... $1,108
- Cost of Education .................................................... $12,434

II. Independent and Dependent
Living Away from Home: 9 Months

- Registration Fees* .................................................. $1,388
- Books and Supplies .................................................. $1,792
- Room and Board ..................................................... $12,492
- Personal Expenses .................................................. $2,916
- Transportation ....................................................... $1,242
- Cost of Education .................................................... $19,830

*Registration Fees are based on 14 units at $46 per unit, plus the Health Fee and Transportation Fee. Out-of-state students may base their school expenses on Budget II, plus out-of-state tuition, which is currently $261 per unit.

**Important Note:** The amount of funds allocated to Santa Barbara City College, compared to the large number of needy students who qualify for financial aid, rarely allows the college to meet the total needs of an aid recipient.

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### Student Support Services Directory

<table>
<thead>
<tr>
<th>Services</th>
<th>Days/Hours</th>
<th>Contact Person</th>
<th>Room</th>
<th>Phone (805)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Academic Counseling Center</strong></td>
<td>MTh 8-4, TW 8-6, F 8-1</td>
<td>Oscar Zavala</td>
<td>SS-120</td>
<td>730-4085</td>
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<tr>
<td>(Academic planning, degree applications, educational planning)</td>
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<tr>
<td><strong>Admissions &amp; Records</strong></td>
<td>MTh 8-4, TW 8-6, F 8-1</td>
<td>Michael Medel</td>
<td>SS-110</td>
<td>730-4001</td>
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<td>(Application, registration, SBCC photo I.D., pass/no pass, transcripts, petitions, records)</td>
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<td><strong>Articulation</strong></td>
<td>M-Th 8-4, F 8-1</td>
<td>Laura Castro</td>
<td>SS-144</td>
<td>730-5184</td>
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<td><strong>Assessment Office</strong></td>
<td>M-Th 8-4, F 8-1</td>
<td>Sara Volle</td>
<td>SS-251</td>
<td>730-4149</td>
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<tr>
<td>(Math, writing, reading placement exams)</td>
<td>Testing hours differ from office hours; visit <a href="http://www.sbcc.edu/assessment">www.sbcc.edu/assessment</a> for testing schedule</td>
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<td><strong>Athletics</strong></td>
<td>M-F 8-4:30</td>
<td>Candee Gyll</td>
<td>PE-301</td>
<td>730-4076</td>
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<td><strong>Athletics Academic Support</strong></td>
<td>Check posted hours</td>
<td>Joanne Graham</td>
<td>PE-211</td>
<td>730-4180</td>
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<td><strong>Bookstore</strong></td>
<td>Check hours at</td>
<td>Paul Miller</td>
<td>Bookstore</td>
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<td><a href="http://www.sbcc.edu/bookstore">www.sbcc.edu/bookstore</a></td>
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<td><strong>CalWORKs</strong></td>
<td>M-F 8-4</td>
<td>Chelsea Lancaster</td>
<td>SS-240</td>
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<td><strong>Campus Security</strong></td>
<td>M-F 8-4:30</td>
<td>Erik Fricke</td>
<td>ECC-41</td>
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<td>(Accidents, parking, escorts, crimes, impounded bikes)</td>
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<td><strong>CARE Program</strong></td>
<td>M-Th 8-4, F 8-1</td>
<td>Chelsea Lancaster</td>
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<td>(Educational resources for single parents)</td>
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<td><strong>Career Center</strong></td>
<td>MTh 8-4, TW 8-6, F 8-1</td>
<td>Chris Phillips</td>
<td>SS-282</td>
<td>730-4131</td>
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<td>(Career counseling, assessment, job referral, re-entry adults, Work Experience)</td>
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<td><strong>Child Care for Children, 12 mos. – 5 yrs.</strong></td>
<td>M-Th 7:30-5, F 7:30-4</td>
<td>Beth Rizo</td>
<td>365 Loma Alta</td>
<td>965-6883</td>
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<td>(Orfalea Early Learning Center)</td>
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<td><strong>Clubs and Student Life</strong></td>
<td>M-F 8-4:30</td>
<td>Amy Collins</td>
<td>CC-217</td>
<td>730-4062</td>
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</table>

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Santa Barbara City College Catalog 2016-2017
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Computer Labs—CLRC
(Computer Commons, course-related computer applications, CAI classrooms, 1:1 computer tutoring appointments) M-Th 8-8, F 8-4 ................................. Barb Freeman .......................... CLRC-109 .......................... 730-4466
Degree Works ........................................ M-Th 8-4, TW 8-5, F 8-1 ................................. Arleen Hollosy .......................... SS-280D .......................... 730-4381
Disabled Student Programs and Services (DSPS) ........................................ M-Th 8-4, TW 8-6, F 8-1 ................................. Jana Garnett .......................... SS-160 .......................... 730-4164
Distance Education Support .................................................. M-Th 9-4, F 9-1 ................................. Staff ...................................... CC-225 .......................... 897-3549
.....................................................

Dual Enrollment Program ........................................... Call for hours ................................. Claudia Johnson .......................... 730-3020
Emergencies
(Call boxes located around campus) ........................................ Call for hours ................................. Security Staff .......................... ECC-41 .......................... 730-4200
Enrollment Services
(Prospective student information, registration assistance, campus tours, college orientation) .. M-Th 8-4, TW 8-6, F 8-1 ................................. Vanessa Pelton .......................... SS-111 .......................... 730-4736
EOPS (Support services for economically disadvantaged students) ........................................ M-Th 8-4, TW 8-6, F 8-1 ................................. Marsha Wright .......................... SS-240C .......................... 730-4079
Escort Service ........................................... Call for hours ................................. Erik Fricke ................................ ECC-41 .......................... 730-4200
Federal Work Study
(Part-time employment for financial aid students) .. M-Th 8-4, F 8-1 ................................. Staff ...................................... SS-210 .......................... 730-5157
Financial Aid ........................................ M-Th 8-4, TW 8-6, F 8-1 ................................. Saul Quiroz .......................... SS-210 .......................... 730-5157
Gateway to Student Success
(Tutoring services and academic support provided for students in a Gateway class) .......................... M-Th 8-30-5, F 8-30-12 ................................. Brian Moreno .......................... ECC-4 .......................... 730-4770
High School Students ........................................ M-Th 8-4-30, F 8-4-15 ................................. Vanessa Pelton .......................... SS-111 .......................... 730-4736
Honors Program (prossor@sbcc.edu) ......... Call for hours ................................. M. Eckford-Prossor .......................... IDC-311 .......................... 730-3014
Injury/Accident Reporting & Insurance .......................... M-Th 8-4, T 8-6, W 9-6, F 9-1 ................................. Laura Fariss .......................... SS-170 .......................... 730-4098
International Student Support Program .......................... M-F 8-12, 1-4 ................................. International Advisors .......................... IEC .......................... 730-4040
Internships (Volunteer, paid, credit) ........................................ M-Th 8-4, TW 8-6, F 8-1 ................................. Career Center .......................... SS-282 .......................... 730-4131
Learning Resources Center
(Supplemental instruction multimedia tools and learning materials, including videos, DVDs, CDs, software programs; Writing Center, Tutorial Center, Computer Lab and CAI classrooms) ........................................ M-Th 8-8, F 8-4 ................................. Vandana Gavaskar .......................... CLRC-23 .......................... 730-4466
Library, Luria
(Library usage, reference and research) ........................................ M-Th 7:30-11, F 7:30-4:30, Sat 12-5, Sun 11-11 ................................. Elizabeth Bowman .......................... Library 134 .......................... 730-4430
Lost and Found ........................................ M-F 8-4:30 ................................. Lorraine Valenzuela .......................... ECC-41 .......................... 730-4064
Math Lab (Individualized assistance) ........................................ M-Th 9-6, F 9-2, S 11-3 ................................. Allison Chapin .......................... IDC-102 .......................... 730-4100
MESA Program ........................................ M 8-4 ................................. Virginia Estrella .......................... 730-4792
Middle College ........................................ M-F 8-4:30 ................................. Regina Freking .......................... ECOC-2, Rm. 16. .. 897-3561
Newspaper: The Channels ........................................... Call for hours ................................. Patricia Stark .......................... ECC-30 .......................... 730-4083
Noncredit Information and Registration ....... Hours and locations: www.sbcc.edu/ce ........................ Michael Medel .......................... Schott Campus .......................... 687-0812
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Parking on Campus (Security Office) .......... M-F 8:30-4:30 ........................................ Erik Friske ................................ ECC-41 ............... 730-4064
Personal Counseling ......................................................... MTh 8-4, T 8-6, W 9-6, F 9-1 ....................... Alyson Bostwick .......... SS-170 ................. 730-4098
Pipeline (Technical support, password reset) .... M-Th 9-4, F 9-1:30 ........................................ Staff ........................................ CC-225 ............ 897-3549
Professional Development Center .......... M-F 8-4:30 ........................................ Shelly Dixon .......... Wake Campus .......... 683-8283
Re-Entry Adults (Career Center) ............. M-Th 8-4, TW 8-6, F 8-1 ...................................... Cami Vigno .......... SS-282 ............... 730-3032
Running Start (Summer Bridge Program) .... M-Th 8-4, TW 8-6, F 8-1 .............................. Adolfo Corral .......... SS-240L ............... 730-4092
Scheinfield Center for Entrepreneurship & Innovation .......... M-F 9-5 ......................................................... Julie Samson .......... BC-220 ............... 892-3643
SPARC Program (Students arriving ready for college Summer Bridge Program) .......... M-Th 8-4, F 8-1 ........................................ Chelsea Lancaster .......... SS-240 ............... 730-4184
Student Employment (Full/part-time community job openings) .......... M-Th 8-4, TW 8-6, F 8-1 ............................ Janna Mori .......... SS-282 ............... 730-4133
Student Finance (Cashier’s Office) ......... M-Th 8-4, TW 8-6, F 8-1 ........................................ Staff .......... SS-150 ............... 730-4197
Student Health and Wellness (Health information, illness assessment, first aid, personal counseling, peer health education, insurance information) .......... M-Th 8-4, T 8-6, W 9-6, F 9-1 ........................ Laura Fariss .......... SS-170 ............... 730-4098
Student Housing (Current listings of all types of off-campus housing availabilities) .......... M-F 8-4:30 ......................................................... Amy Collins .......... CC-217 ............... 730-4062
Student Life, Office of (Activity cards, Student Senate, club activities, housing) .......... M-F 8-4:30 ......................................................... Amy Collins .......... CC-217 ............... 730-4062
Student Senate ................................................................. M-F 8-4:30 ......................................................... Amy Collins .......... CC-217 ............... 730-4062
Study Abroad ................................................................. M-Th 1-4 .............................................................. Staff .......... IEC-1 ............... 730-4294
Title IX Coordinator ........................... M-F 8-5 .............................................................. Ben Partee .......... SS-2260 ............... 730-4087
Transcript Evaluation Office .......... M-F 8-4, F 8-1 ......................................................... Nicole Louie/Angelica Contreras .......... ECOC-2, Rm. 7 .... 730-4352
Transfer Academy ................................................................. M-Th 8-4, TW 8-5, F 8-1 .............................. Angela Warren .......... SS-140 ............... 730-4347
Transfer Achievement Program (Underrepresented student transfer) .......... M-Th 8-4, TW 8-5, F 8-1 .............................. Kathie Adams .......... SS-140 ............... 730-4347
Transfer Center (Transfer to four-year colleges/universities) .......... M-Th 8-4, TW 8-5, F 8-1 .............................. Kathie Adams .......... SS-140 ............... 730-4347
Transitions (Summer Bridge Program) .......... M-Th 8-4, TW 8-6, F 8-1 .............................. Noel Gomez .......... SS-240 ............... 892-3653
Tutorial Center (Individual/group tutoring for content classes and labs) .......... M-Th 8-5, F 8-11:30 ........................................ Jason Levy .......... LRC-120 ............... 730-4467
Veteran Support Services (V.A. benefits information, course/program certification) .......... M-Th 8-4, F 8-1 ........................................................ Magdalena Torres .......... ECOC-1, Rm. 7 .... 730-4003
Volunteer Center ................................................................. M-Th 8-4, TW 8-6, F 8-1 .............................. Career Counselors .......... SS-282 ............... 730-4131
Work Experience ................................................................. M-Th 8-4, TW 8-6, F 8-1 .............................. Chris Phillips .......... SS-282 ............... 730-4131
Writing Center (Help with planning, drafting, revising) .......... M-Th 9-7, F 9-3 ........................................ B. Taylor-Schott .......... LRC ............... 730-4471
Student Support Services

Academic Counseling Center
sbcc.edu/counselingcenter
Academic Counseling Center provides a variety of resources to help students achieve the greatest possible benefit from their college experience. Each academic counselor is a specialist in several academic areas, and students may wish to see a counselor according to the major they declare. The Academic Counseling Center is a valuable resource in exploring the options or defining the requirements in a particular field of study. All counselors have the expertise to assist with course selection, educational planning questions concerning requirements for majors, general education, graduation, or transfer to a four-year college or university. However, students are free to select any counselor they choose. A counselor can answer questions about a course or academic requirements and serve as a valuable resource in helping students select appropriate, as well as the best combination of courses to meet the lower division transfer requirements for specific transfer institutions. Students are encouraged to meet with a counselor on a regular basis. Counseling offices are located in the Student Services Building, (805) 965-0581, ext. 2285.

The Student Success and Support Program (SSSP) is a process that enhances student access and sustains the efforts of students to be successful in their educational endeavors. The goals of SSSP are to ensure that all students complete their college courses, persist to the next academic term, and achieve their educational objectives. As a result, SSSP will ensure that:

- Newly matriculated students will complete an Abbreviated Educational Plan prior to completing 15 credit units.
- Once students identify their program of study, they will meet with a counselor to create a Comprehensive Educational Plan that will detail the necessary courses to reach their academic goal.
- Students are strongly encouraged to follow up with a counselor to review and/or revise their Education Plan as needed to adapt to developing education and career goals.
- Comprehensive counseling services are available to assist students in exploring career, transfer and vocational goals specific to their development.

Academic Counseling Services
Counseling
Meeting with an academic counselor each semester is essential to student success. Counselors are available to new-to-college students who have completed all their steps to enrollment, new transfer students, continuing and returning students on a same-day appointment basis during our open hours. In order that we properly advise students who have attended other colleges, they must have their transcripts when they check in at the front desk of the Academic Counseling Center.

Degrees/Certificates
With the option of over 75 degrees and 50 certificates at SBCC, a student often remains undecided on a major. Counselors are available to discuss options and give general information on each major offered. They can also provide curriculum guides, and discuss prerequisites and general career information. Referrals may be made to the Career Center, or appropriate college and/or community resources.

Online Advising
Can’t find what you’re looking for? Ask a question: www.sbcc.edu/studentservices/files/question

Probation/Dismissal
When a student is placed on Academic Probation/Dismissal and/or Progress Probation/Dismissal, counselors are available to counsel students on the most effective ways to achieve good academic standing. It is strongly recommended that students seek counseling as soon as possible to preserve their academic record.

Student Education Plan (SEP)
A comprehensive SEP should be developed with a counselor during the student’s first semester at SBCC. An SEP outlines a suggested course of study for the individual student based on major, transfer plans and sequence of courses. Students are encouraged to update their plan each semester or when a change is made to their major, transfer institution or other pertinent objectives.

Transfer Advising
Counselors provide transfer information, such as General Education requirements (IGETC and CSU Breadth), preparation for major courses, general admissions requirements, and information on the UC and CSU systems, as well as California independent
and many out-of-state colleges and universities. With counselor guidance, students can explore options and create a plan to transfer.

**Admissions & Records**  
[www.sbcc.edu/admissions](http://www.sbcc.edu/admissions)  
Admissions & Records, Room SS-110, provides information and assistance regarding applications, official college records, registration in classes, SBCC photo I.D., adding or dropping of classes, transcripts, petitions, residency and withdrawal from college.

**Articulation with Four-Year Institutions**  
[articulation.sbcc.edu](http://articulation.sbcc.edu)  
To assist the student with transfer to four-year institutions, articulation agreements have been established with most California State Universities, University of California campuses and some independent California and out-of-state colleges. These agreements define the courses at Santa Barbara City College that satisfy many lower division major requirements and/or General Education requirements at four-year institutions.  
ASSIST is a computerized student transfer articulation information system that can be accessed over the World Wide Web at [www.assist.org](http://www.assist.org). It displays reports of how California community college courses can be applied when transferred to California State Universities and University of California campuses. ASSIST is the official repository of articulation for California’s public colleges and universities, and therefore provides the most accurate and up-to-date information available about student transfer in California.

**Assessment Center**  
[www.sbcc.edu/assessment](http://www.sbcc.edu/assessment)  
The Assessment Center is dedicated to ensuring student success by providing evaluation of mathematics and English skills. Test results, given as course placement recommendations, give the student information necessary to complete his/her educational objectives. Assessment results provide valuable information relative to course skills advisories and satisfy some course prerequisites. Usually taken at the outset of a student’s college education, assessment is part of a student success plan to move the student efficiently through the educational process.  
English and mathematics placement testing is offered in a computerized testing lab four days a week during two periods a year, October—January (for Spring registration) and February—August (for Summer/Fall registration). Detailed information regarding specific test dates, test preparation materials and alternatives to testing may be found at [www.sbcc.edu/assessment](http://www.sbcc.edu/assessment).  
The Assessment Center is also a drop-off location for student prerequisite verification and challenge documentation. Verifications include submission of external coursework to satisfy course prerequisites. Visit [www.sbcc.edu/prerequisites](http://www.sbcc.edu/prerequisites) for further details.  
The Assessment Office is located in the Student Services Building, Room SS-251. The Computer Assessment Lab is located adjacent to the office in Room SS-250.

**Athletics**  
[www.sbcc.edu/athletics](http://www.sbcc.edu/athletics)  
Santa Barbara City College is a member of the Western State Conference and the Southern California Football Association Competition and eligibility is governed by the California Community College Athletic Association Constitution and By-Laws. Intercollegiate athletic competition is offered in men’s and women’s cross-country, men’s and women’s soccer, football, women’s volleyball, women’s water polo and women’s golf in the fall.  
During the winter, men’s and women’s basketball is offered. For spring, baseball, men’s golf, men’s volleyball, women’s swimming and diving, women’s softball and men’s and women’s tennis, and men’s and women’s track and field are offered.  
The Athletics Department also sponsors a cheerleading program that participates during both fall and spring athletic events.  
Any questions pertaining to athletic eligibility or cheerleading should be directed to the Athletics Director, (805) 730-4077, or the coach of the sport in which one decides to participate.

**Bookstore**  
[www.sbcc.edu/bookstore](http://www.sbcc.edu/bookstore)  
The Campus Store is owned by the SBCC Community College District and all profits are directed in support of student programs and activities. We support the mission of SBCC by providing required course materials, supplies, and merchandise in cost efficient, easily accessible formats. We are committed to providing exceptional customer service and high quality products while partnering with campus constituents to achieve mutual goals. We endeavor to grow and expand future services and to operate a financially responsible business that invests back into SBCC and its continued success.
The Bookstore sells new and used textbooks, as well as offering rental and digital textbooks. We are the on-campus provider of SBCC-logoed merchandise, as well as school supplies, art supplies and gift items.

Regular semester hours are Monday through Thursday, 7:45 a.m. to 6 p.m., and Friday, 7:45 a.m. to 4 p.m. See our website for additional special hours.

**Campus Security**

*www.sbcc.edu/security*

The Campus Security Office is located in ECC-41 (adjacent to the Sports Pavilion). The office is open Monday through Friday, 8:30 a.m. to 4:30 p.m., phone (805) 730-4064. Security is on campus during school hours, and can be reached during non-office hours at ext. 2400. If there is an emergency, call ext. 2400 from a campus phone or (805) 730-4200 from a cell phone. The Security Office’s main responsibilities are responding to incident calls, providing escorts, issuing citations for illegally parked vehicles, and securing buildings on campus. When school is in session, the campus is patrolled by officers in designated locations to observe and report any suspicious activity.

The department works closely with the Santa Barbara Police Department and each officer has the ability to contact the police directly over their handheld radios in case of an emergency. The department has six full-time employees and up to 30 part-time officers.

Santa Barbara City College is committed to the safety of all students, faculty and staff. In response to Assembly Bill 1088’s concern that women on American college campuses, who are 18-24 years of age, are at greater risk for becoming victims of sexual assault than women in the general population, information on sexual assault prevention and information on what to do if sexual assault occurs can be obtained at the following websites: [www.sbcc.edu/healthservices](http://www.sbcc.edu/healthservices) or [www.sbrapecrisiscenter.org](http://www.sbrapecrisiscenter.org).

**Career Center**

*www.sbcc.edu/careercenter*

The Career Center is located in the Student Services Building, Room 282. The Career Center provides students with direct access to the college’s comprehensive business, occupational and career development programs and services. The professional staff addresses students’ unique career goals and aspirations through:

- Comprehensive career counseling services that are available to all students.
- Computerized career guidance programs that allow the student to determine job interests, skills and values and to develop decision-making and job search strategies.
- Career-planning classes, workshops and seminars offered throughout the year.
- Work experience, internships, volunteer and mentorship opportunities for students.
- Up-to-date information on the college’s diverse array of business, occupational and career education programs/services.
- Comprehensive job referral assistance for those students who complete occupational education certificate or degree programs. Assistance is also provided to students seeking part-time and summer employment. For information on career services, call (805) 965-0581, ext. 2331.

**Child Care: Orfalea Early Learning Center**

*www.sbcc.edu/childcare*

Santa Barbara City College offers full-time childcare for children ages six months to when they enter kindergarten. The center is accredited by the National Association for the Education of Young Children (NAEYC).

Priority is given to full-time student parents who are income-eligible and enrolled in a vocational training program. The center also serves faculty and staff of the college if space is available. For more information, call (805) 965-6883 or e-mail rizo@sbcc.edu.

Located across the street from SBCC’s Main Campus at 365 Loma Alta Drive. Orfalea Early Learning Center is also a lab school program to meet the college’s Early Childhood Education teacher-training needs. For information about teacher-training, contact Julie Smith, ECE chair, ext. 2859.

**Clubs and Organizations**

*www.sbcc.edu/clubs*

Participation in campus club life is a great way to enrich your co-curricular experience at Santa Barbara City College. Clubs are organized to involve students in specialized fields of interest associated with academics, hobbies and special service to the community or college. Come to the Office of Student Life, located in the Campus Center, Room-217, to join a club or to start your own group. A Club Manual is available to assist you in having a successful club. The manual includes information about club rosters, constitutions, advisers and charters. Many past clubs have focused on career options, student diversity,
Sports, politics, religion, service, recreation and social events. Listed below is a sample of the clubs that are now active or have been active in the past.

- American Sign Language
- Biology Club
- E.O.P.S. Club
- Film Review Club
- Geology Club
- International Studies Association
- Japanese Calligraphy Club
- Psychology Club
- Queer and Ally Club
- Student Sustainability Coalition
- Wellness Connection

Computer Labs
www.sbcc.edu/computerresources
Santa Barbara City College’s main campus has approximately 1,200 computers available for students.

Disabled Student Programs and Services (DSPS)
www.sbcc.edu/dsp
Santa Barbara City College welcomes students with disabilities. The college has established the office of Disabled Student Programs and Services to provide the following support for student success:

- Provide educational support services for students with disabilities enrolled in SBCC courses.
- Offer the assistance of six full-time disability specialists, four service providers and over 30 auxiliary aides.
- Provide services such as counseling, extended time on tests, priority registration, alternate media, assistive technology, auxiliary aides, adapted equipment and tutorial lab.
- Determine eligibility for educational accommodations or services by requiring students to present verification of disability to a DSPS disability specialist.
- Empower students with disabilities to attain maximum independence, integration, self-advocacy and self-determination.
- Support the participation of students with disabilities in all educational activities consistent with the mission of community colleges.
- Provide reasonable educational accommodations for students with disabilities while maintaining the integrity of uniform academic standards at SBCC and the fundamental nature of college programs and services.
- Encourage the achievement of academic and vocational goals, such as degree or certificate completion, college transfer and workplace needs.
- Counsel students with disabilities to comply with the skills advisories for each course and meet prerequisites or enrollment requirements.
- Support students with disabilities in demonstrating their ability to benefit from instruction so that SBCC instructors may assign a grade that gives an accurate measure of the student’s achievement of course objectives. Inform auxiliary aides and personal service attendants to provide support in such a way as to allow instructors to observe that the student with a disability is doing his/her own work.
- Provide programs and services for students with disabilities, in compliance with laws and regulations such as the Americans with Disabilities Act, Section 504 and 508 of the Rehabilitation Act, the California Community Colleges Title 5 regulations, and policies and procedures adopted by the Board of Trustees of the Santa Barbara Community College District.

SBCC expects students to have a stable level of health in order to benefit from a full semester’s work. It also expects students to demonstrate the ability to take care of personal needs unassisted, or provide a personal service attendant (PSA). Personal needs include such activities as negotiating campus facilities, lifting and carrying possessions, eating, drinking, or completing personal hygiene activities. SBCC requires students to contact a DSPS disabilities specialist if they intend to bring a PSA to campus. It also expects students to comply with the Code of Student Conduct, regardless of the basis of disability. SBCC invites students to request educational accommodations or DSPS services by contacting the DSPS Office, Room SS-160, or by calling (805) 965-0581, ext. 2364 (voice) or dspshelp@sbcc.edu.

Distance Education Student Technical Support
www.sbcc.edu/distanceeducation/destudentsupport.php.
Distance Education Student Technical Support serves students by providing support for the college’s student portal (Pipeline) and the college’s authorized course management systems (Moodle and Canvas).
For assistance: Distance Education Student Technical Support, www.sbcc.edu/support/contact, (805) 965-0581 ext. 2949, online@sbcc.edu, or Campus Center (CC-225).

**Hours (PST):**
- Monday through Thursday: 9 a.m. to 4 p.m.
- Friday: 9 a.m. to 1 p.m.
- Hours are subject to change.

Distance Education Student Technical Support provides answers to frequently asked questions (FAQs): www.sbcc.edu/support/contact. Support documentation is also available: www.sbcc.edu/support/supportdoc.php.

**Drama and Music**
The Theatre Arts and Music departments present a wide range of programs on campus and in the community during the school year.

All interested students are encouraged to audition and/or participate on backstage crews for the many production and showcase opportunities produced in the Garvin and Jurkowitz theatres located in the Drama/Music Complex. For complete information on drama activities, call Katie Laris, ext. 2497, or Michael Gros, ext. 4049.

Students with musical talents are invited to join such critically acclaimed groups as the College Choir, Quire of Voyces, Symphony Orchestra, Jazz Ensembles, Concert Band and Chamber Singers. For complete information on these groups, call the Music Department Office, ext. 2379, and speak with James Watson.

**Employment**
www.sbcc.edu/careercenter

The Career Center receives numerous job orders from employers in the community. The center can provide referrals for part-time or full-time jobs and internships. It also provides a website listing information on all on-campus student jobs and maintains an online job referral system. The center also sponsors job and internship fairs every semester that invite local employers to campus and allows students to learn about career opportunities and to apply for job openings. Additional information on job referrals is available at the Career Center, located in the Student Services Building, Room 282, or by calling (805) 965-0581, ext. 2331.

**Enrollment Services**
www.sbcc.edu/enrollmentservices

The Enrollment Services Department functions as the front line connection for prospective, returning and current students. Enrollment Services operates the Welcome Center that provides enrollment assistance via e-mail, phone and in-person contact. The Welcome Center is located on the first floor of the Student Services Building. The department provides access to learning opportunities that promote student enrollment and success through a variety of outreach and orientation services: pre-admissions advising to both local and out-of-area prospective students and their families, campus tours, college fairs, application workshops, welcome tables and more. Enrollment Services also hosts a variety of events for prospective students and their families, such as Vaquero Welcome, College Night and Spring Preview Day.

**Extended Opportunity Program and Services**
www.sbcc.edu/eops

EOPS is a state-funded, comprehensive support system for qualified low-income students who are enrolled full-time (12 or more units). The goal of the program is to help students meet their educational objectives, whether they seek an occupational certificate, an Associate in Arts or Science Degree, or transfer to a four-year college.

Special EOPS services, in Room SS-240, include:
- **Admissions Assistance:** Assistance will be provided by Student Program Advisers and the EOPS Academic Counselors to EOPS students who need help with enrolling in classes.
- **Career Planning:** EOPS provides career tests for EOPS students who are enrolled in Career Planning courses.
- **Financial Aid:** Eligible EOPS students receive assistance in completing federal/state financial aid forms, and help with eligibility to receive an EOPS book grant, in combination with other types of federal and state aid.
- **Transition Assistance:** EOPS students receive counseling and assistance to help them transfer to four-year institutions of their choice. These services are coordinated with the SBCC Transfer Center. The EOPS Program actively seeks job employment information for its students to assist in the transition from college vocational programs to full-time employment in the community and state.
• **Tutoring:** Tutoring in any subject is available through the EOPS Tutorial Center or on a one-on-one basis, as needed.

• **CARE (Cooperative Agencies Resources for Education):** Santa Barbara City College provides opportunities for low-income single parents to obtain the skills and education necessary to move from poverty to economic self-sufficiency. By providing individualized counseling and support services (financial aid, tutorial, career exploration, transportation and child care), single parents are able to enroll as full-time students working toward a wide variety of career and personal goals.

Some major program goals for CARE are to provide incentives to individuals to minimize their welfare dependence and enhance their employability; to strengthen self-awareness and self-confidence, leading to a positive self-image; to provide career awareness and decision-making skills; and to provide work experience in meaningful employment positions, both on and off campus.

- **Guardian Scholars Program:** A support program for former foster youth and AB12 students. The program provides financial, academic and personal support for eligible students.

- **Running Start:** A six-week summer program for eligible graduating high school seniors offers college orientation, field trips and a weekly stipend. Students are eligible for priority registration, academic counseling, orientation/motivation/personal development courses and other support services.

- **S.P.A.R.C. (Single Parents Arriving Ready for College):** A six-week summer program for eligible single-parent students offers college orientation, field trips and a weekly stipend. Students are eligible for priority registration, academic counseling, orientation/motivation/personal development courses, childcare and other support services.

- **Transitions:** A six-week summer program for recently released inmates or individuals on probation or parole offers college orientation, a college success course and weekly field trips. Students are eligible for priority registration, academic counseling and other support services.

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**Food Service**

The **College Cafeteria** is located to the right of the main entrance of the Campus Center. It is open Monday through Thursday, 7:30 a.m. to 8 p.m., and Friday, 7:30 a.m. to 1:15 p.m. Hot meals are served daily, 7:30 a.m. to closing. Excellent food and service are available at reasonable prices.

- The **JSB Café** is located in the School of Culinary Arts Building, which lies between the Campus Center and the Bookstore. Lunch is served Monday through Friday, 11:15 a.m. to 1:30 p.m.

- The **School of Culinary Arts Gourmet Dining Room** is located in the School of Culinary Arts Building. Seating is available from 11:30 a.m. to 12:30 p.m. for lunch and 5:30 to 7 p.m. for dinner. Lunch is served Monday through Friday, and dinner is served Thursday and Friday evenings. For reservations, call ext. 2773.

- The **West Campus Snack Shop** is located in the Business/Communication Building, open Monday through Thursday, 7:30 a.m. to 8:30 p.m. and Friday until 1:15 p.m. **Favelas Mexican Food** is located in front of the Campus Center, open Monday through Friday from 10 a.m. to 2:30 p.m. Additionally, students can get coffee and baked goods at the **Campus Center Buzz Shack**, open Monday through Thursday, 7:30 a.m. to 7 p.m., and Friday, 7 a.m. to 1:15 p.m., and the **Luria Library Café**, open Monday through Thursday, 7:30 a.m. to 7 p.m., and Friday, 7:30 a.m. to 2 p.m.

- The School of Culinary Arts also provides catering for on-campus events. Call ext. 2888 to book catering events.

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**Gateway Tutoring to Student Success**

[www sbcc edu gatewaytosuccess](http://www.sbcc.edu/gatewaytosuccess)

The Gateway Tutoring Program is part of the “Partnership for Student Success,” an SBCC faculty-driven initiative developed to help students achieve success in their first year of college. The program was designed on the concept of triangulated instruction that builds a strong and complementary relationship between the instructor, tutor and each student participating in Gateway. All Gateway classes have a trained tutor in the classroom or the lab, working directly with the faculty member. The tutor assists the faculty member by helping students achieve academic success. The 300+ Gateway course sections are designated with a “G” in the Instructional Method column in the online Schedule. In addition, the Gateway to Student Success Center, located on the East Campus in ECC-4, provides a tutorial center. Regular semester hours are Monday through Thursday, 8:30 a.m. to 5 p.m., and Friday, 8:30 a.m. to noon. Call Brian Moreno, ext. 4770, for additional information.
Housing
www.sbcc.edu/housing
As a service to those students living away from home, the Office of Student Life (Campus Center, Room 217) maintains listings of available rooms, apartments, and room and board options within the community. This list is also available at www.sbcc.edu/housinglist. The office also provides a renters’ housing brochure, which informs students about available rentals, privately owned residence halls and rental strategies. This information is also available at www.sbcc.edu/housing. The college, however, assumes no responsibility for inspecting or supervising such housing facilities. It does support and endorse the Fair Employment and Housing Act.

Injury/Accident Reporting and Insurance
www.sbcc.edu/healthservices
All class-related accidental injuries must be reported to the Student Health Services Office, Room SS-170, within 72 hours of the incident to be eligible for college student accident insurance policy coverage. This coverage is limited to accidental injuries while participating in college classes or activities and is secondary to any other medical insurance the student may have. Coverage and limitations are outlined in a brochure available in the Student Health Services Office.

Voluntary medical or dental/optical insurance is available to students at a special student rate through a private insurance company. Information on these plans is available in the Student Health Services Office and on the Student Health Services website, www.sbcc.edu/healthservices.

Contracts with Santa Barbara Cottage Hospital and Goleta Valley Cottage Hospital emergency rooms have been established to provide medical care to all students at a discounted rate. The emergency rooms are open 24 hours a day, seven days a week. Your student I.D. card must be presented at the time services are rendered.

International Student Support Program
www.sbcc.edu/international
International students have always played an important role in the life of the college. SBCC welcomes international students and encourages them to utilize all of the services provided by the International Student Support Program staff.

The International Student Support Program strives to provide international students with an opportunity to benefit from a high-quality academic curriculum, as well as from intellectually stimulating social and recreational activities. The International Student Program consists of two programs. The English Language Studies Program (ELSP) is an intensive language program for beginning to advanced level international students who wish to improve their English skills before taking other college-level classes.

The International Student Academic Program (ISAP) is open to students who have placed above the ESL level on the SBCC assessment test and who are prepared for advanced English and regular college courses.

ISAP students may earn a two-year Associate Degree or complete their lower-division transfer requirements for four-year colleges and universities.

Housing assistance is offered to all international students. Lists of Santa Barbara area hotels and motels, student apartments, student dormitories, as well as professional host family and apartment placement service are available. All international students who have a student visa (F-1) are required to check in at the International Education Center upon arrival and to attend the mandatory arrival orientation. Student visa holders will be assisted with the processing of required documents and provided with information on upcoming international student activities and events.

Internship Referral Service
www.sbcc.edu/careercenter
Internship opportunities are available to students through the Career Center which links local employers and students. Internships are an ideal way for students to gain hands-on experience in the workplace and make valuable professional contacts while still in college. Internships are made available both through listings in the Career Center and through the online job posting service that the center sponsors. To receive college credit for internships, refer to the Work Experience section of this Catalog. Additional information about internships is available at the Career Center, located in the Students Services Building, Room 282, or by calling (805) 965-0581, ext. 2331.

Cartwright Learning Resources Center
www.sbcc.edu/learningresources
The Cartwright Learning Resources Center, which houses numerous learning support services, is open Monday through Thursday, 8 a.m. to 8 p.m., and Friday, 8 a.m. to 4 p.m. The Writing Center is open Monday through Thursday, 9 a.m. to 7 p.m., and Friday, 9 a.m. to 3 p.m.
Check-In Counter for Media and Computer Access
The Cartwright Learning Resources Center houses a cross-curricular multimedia library. These materials do not circulate outside of the department. Individual viewing/listening carrels are available. The CLRC provides required supplemental instructional materials for classes in Earth Science, History, Music, Physical Education, Work Experience and others. Anthropology 121-126 (one unit) classes are offered each semester, and all assignments are completed in the CLRC.

Computer-Assisted Instruction
Labs (CAI I and CAI II). The CAI Labs are classrooms with locally networked Macintosh computers and printers. They are primarily teaching facilities that are available to faculty by reservation only.

Computer Commons
This is a drop-in computer lab with Macintosh and PC computers and printers available to all SBCC students. Tutors provide friendly assistance, as well as one-on-one tutorials by appointment.

Tutorial Center
The Tutorial Center, located in the Cartwright Learning Resources Center in room 118, coordinates a large number of tutorial services. Information about individual, small group tutoring and tutorial labs covering a variety of subjects is available for the general student population, as well as faculty. General tutor training registration is also accessed through this office.

TUT 199 — Tutor Training (0.75-1.0) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Limitation on Enrollment: Must have faculty sponsorship
Hours: 10 lecture, 15-25 lab
Variable-unit course for students who want to gain tutoring skills. Enrollees learn how to organize tutorial sessions, refer students to appropriate campus services, help students develop problem-solving strategies, and offer assistance with core academic competencies. Course may qualify enrollees for CRLA certification.

Tutoring Commons
This is an open commons supporting multiple departments for small-group and individual tutorial sessions.

Writing Center
The Writing Center offers drop-in and by-appointment assistance with any stage of the writing process, as well as research composition format. Individual Writing Lab sessions last a half-hour. The Writing Center also provides online writing resources. See the lab’s website on the SBCC home page.

Lost and Found
Articles found on campus and in its immediate environs are turned in to Campus Security, Room ECC-41 (adjacent to the Sports Pavilion). Owners must appear in person to identify and claim lost items.

Luria Library
library.sbcc.edu
The Eli Luria Library, named after our benefactor Eli Luria, was built in 1989. Embracing its slogan (Explore, Learn, Grow), the Luria Library seeks to inspire discovery by offering dynamic, innovative, and welcoming physical and virtual environments for students and faculty, and providing the resources, services, and instruction they need to achieve educational, professional, and personal growth and success. There is a collection of more than 112,000 titles, selected with faculty and student recommendations (approximately 2,000 volumes are added each year), as well as 150 print periodical subscriptions and 10 newspaper subscriptions. This collection includes 61,000 electronic books and subscriptions to 61 electronic databases, which provide access to more than 14,500 full-text periodicals. Copies of most course textbooks are available for short-term use inside the Library.

Located in the combined Library/Learning Resources Center building, the Luria Library provides seating for more than 300, in individual study carrels, as well as group study rooms and lounge areas. Group study rooms can be reserved online. There are scanners, photocopiers and black/white and color laser printers. Access to the library catalog and checkout information are available from the Library website. Checkout of library materials is accomplished with student I.D. Access to databases and other online library resources is available through the Library website from on or off campus. Books and copies of articles from periodical titles not owned are available via Interlibrary Loan.

Professional librarians are available at all open hours to aid in reference and research and to provide instruction in Library use: services are provided in-person, using instant message, text message, or telephone.

Wi-Fi access for students using personal computers and other devices is provided throughout the Library.
The Buzz Shack is the Library Café where students can purchase coffee drinks, juices and pastries. The Library is open Monday through Thursday, 7:30 a.m. to 11 p.m., Friday, 7:30 a.m. to 4:30 p.m., Saturday, 12 to 5 p.m. and Sunday, 11 a.m. to 11 p.m. Extended hours are available prior to finals week each semester.

Mathematics Engineering Science Achievement (MESA)
The Mathematics Engineering Science Achievement (MESA) California Community College Program (CCCP) is an academic program designed to encourage educationally and financially disadvantaged community college students to excel in math, engineering and science so they can transfer to institutions offering baccalaureate degrees in these fields. MESA CCCP centers are located on selected community college campuses throughout the state and serve over 3,000 students. The program is a collaboration between MESA and the California Community Colleges Chancellor’s Office. The MESA program for Santa Barbara City College was established in 2007. Call (805) 730-4792 or visit CC-228.

Newspaper: The Channels
www.thechannelsonline.com

The Channels is an online news site published daily by students in journalism, photography, video, design and multimedia classes. The Channels provides mass- and applied-media students first-hand experience in the fast-moving, real-life, interactive world of journalism. Students work in a newsroom on state-of-the-art equipment, under the guidance of a professional staff. SBCC is The Channels’ beat, and the news staff serves the campus and the larger Santa Barbara community with news, features, editorials, reviews, video stories, photos and illustration and design.

The Channels is also a First Amendment, community-forum news publication that provides a free flow of ideas generated by the campus and community.

For further information, contact Patricia Stark, faculty adviser, located in Room ECC-15, ext. 2378.

Noncredit Information and Registration
Noncredit Information and Registration Offices assist students with applying and registering in noncredit courses and are located at the Schott and Wake Campuses.

Office of Student Life
www.sbcc.edu/studentlife

The Office of Student Life, located in the Campus Center, Room 217, is the center of co-curricular and extracurricular student activities on campus. Its staff assists individual students and student groups in coordinating activity projects, along with providing support to SBCC’s clubs and Associated Student Government/Student Senate.

A variety of services and programs are provided by the department upon request. It is the place where students go if they need information on poster and sign-making, use of the Free Speech Area, display tables for literature, authorization to solicit funds on behalf of a campus club, weekly calendar of events, participation in student government, student activity stickers, senior discount cards, housing, MTD bus pass information, housing and participation on college committees.

Online Services
The college has established a comprehensive website and may be accessed at www.sbcc.edu. Information on the college may also be obtained by e-mail at info@sbcc.edu.

Orientation Services
www.sbcc.edu/orientation

Orientation provides new students with information about Santa Barbara City College in order to prepare them for a successful college experience. Topics include educational programs, support services, college facilities, student life, and students’ rights and responsibilities.

All new students are strongly encouraged to participate in college orientation. However, college orientation is required of all students who have never attended college, or attended while in high school, or new transfer students, and indicated a goal of degree, certificate, transfer or basic English/math skills or and undecided educational goal on their SBCC application.

Separate from college orientation, several departments and support programs may require supplemental orientations to familiarize students with services, procedures and policies of the department or program.

Re-Entry Adult Services
www.sbcc.edu/careercenter

An increasing number of adults are attending college for the purposes of retraining, transition from home
to the workplace and continuing education. Santa Barbara City College welcomes them and recognizes the wealth of experiences they bring to the college setting. It is recognized that this group has unique concerns, and the college is committed to providing services to address adult re-entry issues. Services may be accessed through the Career Center, Room SS-282, ext. 2331.

Schedule of Classes
www.sbcc.edu/classes
The Schedule of Credit and Noncredit Classes, containing specific course offerings, information on admission/registration procedures, assessment/advising, student services and mandated compliances, is published prior to each Fall, Spring and Summer college term. Copies are available at nominal cost on campus or can be viewed online at www.sbcc.edu/classes.

Scheinfeld Center for Entrepreneurship & Innovation
scheinfeld.sbcc.edu
The Scheinfeld Center for Entrepreneurship & Innovation is where students from any discipline can acquire the skills, gain the tools and access the mentorship needed to start or grow a unique business. The Scheinfeld Center offers a hands-on academic program where students build their own business in a series of entrepreneurship courses. The center also offers a personalized internship program, the Enlightened Entrepreneurship Speaker Series, a regional pitch competition, and the Enterprise Launch work experience program where students develop a product or service in a single semester. The Scheinfeld Center provides free Small Business Development Center (SBDC) consulting to students and the community. The Scheinfeld Center is located in BC-220.

STEM Transfer Program (STP)
www.sbcc.edu/STP or www.sbcc.edu/STEM
Educating professionals in Science, Technology, Engineering and Mathematics (STEM) areas is a national priority for the United States, to face the opportunities and challenges of the 21st century. Examples of STEM disciplines are: Computer Science, Engineering, Life Sciences, Mathematics and Physical Sciences. The STEM Transfer Program at SBCC is funded by the U.S. Department of Education and has as a priority to encourage underrepresented and financially disadvantaged students to engage in STEM areas. Participation in the STEM Transfer Program provides: additional tutoring, belonging to a community of committed students that share similar transfer goals, campus trips to universities, personalized transfer success curriculum to make informed decisions about the transfer process, semester-by-semester academic planning to ensure required transfer coursework is completed in the most time-efficient manner, opportunities to participate in professional conferences in STEM areas, and assistance in exploring scholarship opportunities.

STEM Transfer Program Project Director:
Jan Schultz, schultz@sbcc.edu (ext. 4113); Faculty Activity Lead: Jens-Uwe Kuhn, jkuhn@sbcc.edu (ext. 4319)

Student Health and Wellness
www.sbcc.edu/healthservices
Student Health and Wellness is located in Room SS-170, (805) 965-0581, ext. 2298. The office is open daily and during evening hours as posted.

The program promotes health education, disease prevention and healthy lifestyle choices. A registered nurse is in the office for first aid, assessment of illness conditions, referrals and health counseling during office hours. Clinician appointments are available for the diagnosis and treatment of acute care needs upon referral of an RN. Limited laboratory services and prepackaged pharmacy items as prescribed by the clinician are available at a reduced cost. Smoking cessation classes are available to support students to quit smoking. A $20 deposit is returned after completion of the 6-week cessation program.

Short-term personal counseling is provided on an appointment basis for students who are experiencing personal issues or crises which are inhibiting their academic performance. Community referrals for a variety of mental health issues are also offered.

City College Wellness Connection is a campus club whose student members provide peer health education on campus and to community youth organizations. The program promotes education through class presentations, campus events and media campaigns, and focuses on topics such as HIV/AIDS, alcohol and other drugs, stress management and eating disorders. Students interested in joining City College Connect can obtain information in the Student Health and Wellness Office.

ASAP—Alcohol and Substance Awareness Program is a confidential program to help students
who are concerned about their alcohol, tobacco and/or drug use. Students receive consultation, education, individual evaluations and support. For students interested in smoking cessation, free nicotine replacement therapy (gum or patch) is available.

For further information about alcohol and drug problems, smoking addictions, HIV risks, eating disorders, sexual harassment, date rape, personal counseling, and community referrals, contact Student Health and Wellness.

**Student Senate/Associated Student Government**

[www.sbcc.edu/studentsenate](http://www.sbcc.edu/studentsenate)

All students at Santa Barbara City College are encouraged and invited to participate in the governance of the Associated Student Government. Executive board elections are held during the Spring Semester, and applications for senator positions are available through the third week of each Fall and Spring Semester.

The Student Senate consists of students representing a diverse range of SBCC academic and occupational disciplines and activity interests and, yet, they are fully committed to creating a better campus environment in which students may learn, study and come to know one another. The Associated Student Government/Student Senate plays an important role in the decision-making process at the college—while providing a wide variety of services and activities that enhance the total student experience.

Information on the Associated Student Government/Student Senate may be obtained from the Office of Student Life, Room CC-217.

**Transfer Academy**

[www.sbcc.edu/transferacademy](http://www.sbcc.edu/transferacademy)

The Transfer Academy, a program of the Transfer Center, guides students through the process and courses needed to qualify for Transfer Admission Guarantees (TAG) with UC Santa Barbara, UC Santa Cruz, UC Davis, UC Irvine, UC Merced, UC Riverside, CSU Bakersfield, CSU Channel Islands Extended University, and the following private and out-of state universities: Antioch University, Brandman University, University of the Pacific, Whittier College, Arizona State University, Historically Black Colleges and Universities, Northern Arizona University, School of the Art Institute of Chicago, Portland State University, Syracuse University, University of Arizona, Western Oregon University and American University of Paris. International students may also pursue TAGs with CSU Northridge, CSU San Marcos, and San Francisco State University.

Students must apply to the Transfer Academy in order to participate. The application will serve as a statement of intent to meet the requirements for one or more TAGs. Applications are available online at [www.sbcc.edu/TAG](http://www.sbcc.edu/TAG). To be eligible for the Transfer Academy, students must have completed math and English Assessment tests/placement, Orientation, Advising and be eligible to enroll in English 98. Students must also be enrolled in appropriate math and English courses every semester until the requirements for their campus of choice are completed. **Note:** Participation in the Transfer Academy is not required in order to obtain a TAG from the universities. Any SBCC student who meets TAG requirements and deadlines for the specific university can qualify for a TAG.

**Transfer Achievement Program (TAP)**

[www.sbcc.edu/tap](http://www.sbcc.edu/tap)

The Transfer Achievement Program (TAP), located in the Transfer Center is a comprehensive support program designed to assist all under-represented students (including African-American, Mexican-American, Latino and American Indian) in successfully transferring to four-year colleges/universities. TAP offers individualized in-depth advising to future transfers, outreach to potential transfer students, and a variety of relevant student support programs.

The program is designed to ensure that each TAP student participates in important activities and uses valuable services related to successful transfer. Assistance is available in English classes through the Multicultural English Transfer Program (see MET description under “English”).

To join TAP, complete the online application available at [www.sbcc.edu/tap](http://www.sbcc.edu/tap), or contact the Transfer Center, Room SS-140, or call (805) 965-0581, ext. 2547, to arrange for a program orientation.

**Transfer Center**

[www.sbcc.edu/transfercenter](http://www.sbcc.edu/transfercenter)

The Transfer Center, located in Room SS-140, is designed to offer assistance to students with the transfer process. The center provides a variety of services, resources and programs designed to help SBCC students achieve transfer to a four-year university. Services include hosting the annual Transfer Day each Fall, transfer-related workshops, and hosting
admissions representatives from the California State University and University of California institutions, as well as many independent California colleges and universities.

Two transfer-related programs are also housed in the Transfer Center. The Transfer Academy works with students who want to participate in the Transfer Admission Guarantee (TAG) programs offered by most University of California campuses, and other private and out-of-state universities. The Transfer Achievement Program (TAP) is designed to assist ethnically underrepresented, low-income, and/or first generation students who want to transfer. Students must join the programs in order to participate.

Students may also obtain additional information on Transfer Center services and programs by visiting the center in person, by calling (805) 730-4347.

Veterans Support and Resource Center
www.sbcc.edu/veteranssupport
Santa Barbara City College is fully prepared to assist veterans in securing their educational benefits. The Veterans Support and Resource Center is located in ECOC Building 1, Room 5. Our comprehensive website (www.sbcc.edu/veteranssupport) and packet provides information on eligibility, application procedures and special assistance. To request a packet, visit www.sbcc.edu/veteranssupport, or call (805) 730-4003, or e-mail, torres@sbcc.edu.

Any coursework or college credit undertaken by active duty personnel, veterans and qualified dependents at an accredited institution of higher education, and officially recorded on an educational transcript, shall be reviewed and evaluated by Santa Barbara City College, and appropriate credit value given toward an Associate Degree, Certificate of Achievement, or other applicable goal in higher education. Both the student and the Veterans Administration are notified of previous credit accepted toward the current goal.

Veterans and dependents of veterans may be eligible to receive a monthly check depending on the program that they qualify for: Veterans Educational Benefits, Post-9/11 G.I. Bill (Chapter 33), Montgomery G.I. Bill Chapter 30, 31 VA Vocational Rehabilitation, 1606, 1607 (REAP) and/or Dependent’s Educational Assistance Program Chapter 35 of the U.S. Code. The Department of Veterans Affairs Regional Office can inform you of your eligibility at (888) 442-4551 or www.gibill.va.gov.

New students should contact the Veterans Support and Resource Center at least two months prior to the term they plan to attend to initiate required paperwork. Continuing students also should check in at the VSPRC at least two months prior to the next term of attendance to complete any paperwork that might be required for continuous VA payment.

A maximum of twenty-four (24) credits may be granted to active duty service members and veterans for military service based on A Guide to the Evaluation of Educational Experiences in the Armed Services, published by the American Council on Education. After enrolling at Santa Barbara City College, an honorably discharged veteran or an active duty service member who has served on active duty a minimum of 180 days may apply for evaluation of military service experience for college credit. At a minimum, credit will be applied towards the PE requirement for the SBCC Associate Degree (Area E-3) based on official discharge documents (DD-214 or DD-295) or official military experience transcripts recognized by the American Council on Education (e.g., AARTS, SMART) and completion of fifteen (15) units at Santa Barbara City College. A copy of the veteran’s DD-214 separation form and/or official military experience transcripts and an SBCC Alternate Credit Petition form must be submitted to the Transcript Evaluations Office. Credit granted for military service is based on A Guide to the Evaluation of Educational Experiences in the Armed Services, published by the American Council on Education. A maximum of 12 elective credits will be granted for selected DANTES (DSST) subject standardized tests. A minimum score of 50 is required.

Veterans’ priority registration is available to veterans (any member or former member of the armed forces of the United States of America) within five years of leaving active duty, including, but not necessarily limited to, any student who is called to active military duty compelling the student to take an academic leave of absence. For additional information on veterans priority registration, contact SBCC Admissions & Records.

The spouse and children of U.S. veterans meeting the eligibility criteria may have their fees waived if they attend a California Community College, a California State University, or University of California campus. For eligibility requirements, contact the Santa Barbara Veterans County Service Office at (805) 681-4500 or the veterans county service officer in your county.
Volunteer Opportunities

www.sbcc.edu/careercenter

The Santa Barbara City College Career Center offers volunteer opportunities for students interested in community service, career exploration and personal growth. To receive college credit for volunteer experience, refer to the Work Experience section of this Catalog. Students may also participate in one-time events, such as yearly festivals, educational camps, or special cleanup projects.

The program is committed to helping students gain easy access to volunteer opportunities in the community. Additional information about volunteer opportunities is available at the Career Center, Student Services Building, Room 282, or by calling (805) 965-0581, ext. 2331.

Student Rights

Santa Barbara City College is committed to the success of each student, providing a variety of ways for students to access outstanding and affordable higher education programs that foster lifelong learning. SBCC works to ensure academic success for all students as they earn a degree or certificate, prepare for transfer, or gain the occupational competencies and academic skills needed to advance in their careers.

To achieve the environment and conditions essential to the pursuit of this mission, SBCC has developed procedures regarding student rights and responsibilities. These procedures may be obtained from the Dean, Educational Programs—Student Support Services, Room SS-260.

A. Students shall have the right of protection against prejudiced or capricious academic evaluation. Students have the right to impartial, objective evaluation of their academic performance and to receive in writing, at the beginning of each course, information outlining the method of evaluating student progress toward, and achievement of, course goals and objectives, including the method by which the final grade is determined.

B. Students shall be assured that all college programs and activities are available to all persons without regard to ethnic group identification, sexual orientation, religion, age, gender, color, or physical or mental disability. The Santa Barbara Community College District subscribes to the principles and implementation of Equal Opportunity and Affirmative Action and to the provisions of Assembly Bill 803. (Further information may be obtained from the District’s Affirmative Action Officer/Vice President of Human Resources.)

C. Students shall be free from acts or threats of intimidation, harassment, mockery, insult, or physical aggression. Santa Barbara City College expressly prohibits sexual harassment by all faculty, staff and students. The college is committed to creating and maintaining an educational environment which is free of objectionable and disrespectful conduct, and communication of a sexual nature that interferes with an individual’s work or classroom performance or creates an intimidating, hostile or offensive working or learning environment.

D. Students shall have the right to free assembly and to exercise free expression. This includes the right to hear and to present speakers on any subject. The right to free assembly is subject only to regulations that ensure the regular functioning of the college; these regulations shall include reasonable provisions for the time, place and manner of conducting these activities. The exercise of free expression includes, but is not limited to, the use of bulletin boards and the distribution of buttons, badges and other insignia. The right of free expression does not include discriminatory harassment, speech, or other expressions, which insult or stigmatize individuals or groups on the basis of gender, race, color, disability, religion, sexual orientation, or national and ethnic origin.

E. Students shall have the right to form an organization around any particular interest and to join student organizations, subject to published district policy.

F. Students shall have the right to be informed on all campus matters that can be shown to be directly relevant to them and to have a voice in decision-making that affects their academic future. Students are to have an active role in campus governance by having student members on all faculty and administrative committees, as well as groups which deal with matters related to student concerns (with the exception of staff appointments, terminations and tenure or confidentiality where other students are concerned). In case of conflict, the determination of what campus matters are relevant to students will be determined by a campus-designated student/faculty/administrative committee.
G. Students have the right to have student publications which are free from censorship and advance copy approval, except as provided by published district regulations which adhere to the guidelines for responsible journalism.

Academic Records
A. Students shall have the right to have their academic records treated in a confidential and responsible manner as required by the Family Educational Rights and Privacy Act of 1974 and outlined in SBCC district policy which stipulates that any release of student educational records be made with the student's written consent, except where specified. An authorized release of educational records to a third party does not obligate the college to discuss the student's academic record with a third party with or without the student's consent.
B. Students have a right to inspect and review the content of their educational records and to request copies of these records. Students wishing to gain access to their educational records will submit a written request to the Dean, Educational Programs—Student Support Services, requesting the right to inspect and review their educational records.

Due Process
Procedures for due process are described in the District's Student Discipline Procedures (AP 5520). Copies are distributed to all new students during advisement and are available at: www.sbcc.edu/boardoftrustees/files/policies/chapter_5_ap/AP%205520%20Student%20Discipline.pdf. For more information, contact the Dean, Student Support Services, Room SS-260.

Family Educational Rights and Privacy Act
All Santa Barbara City College student records are kept in accordance with the provisions of the Family Educational Rights and Privacy Act (FERPA) and California code of Regulations, Title 5. FERPA affords students certain rights with respect to their education records. These rights include:
• The right to inspect and review the student's education records within 15 days of the day Santa Barbara City College receives a written request for access. Contact the Dean, Student Support Services for more information.
• The right to request the amendment of the student's education records that the student believes are inaccurate, misleading, or otherwise in violation of the student's privacy under FERPA. Contact the Dean, Student Support Services for more information.
• The right to provide written consent before Santa Barbara City College discloses personally identifiable information from the student's education records, except to the extent that FERPA authorizes disclosure without consent. Santa Barbara City College discloses education records without a student's prior written consent under the FERPA exception for disclosure to school officials with legitimate educational interests. A school official is a person employed by the College in an administrative, supervisory, academic or research, or support staff position (including security and health staff), a person or company with whom the College has contracted as its agent to provide a service instead of using College employees or officials; a person serving on an official committee, or assisting another school official in performing his or her tasks. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibilities for the College.
• The right to file a complaint with the U.S. Department of Education concerning alleged failures by the Santa Barbara City College to comply with the requirements of FERPA. Family Policy Compliance Office, U.S. Department of Education, 400 Maryland Avenue SW, Washington, DC 20202-5901.
• Educational records are maintained in the college's Admissions & Records Office (SS-110), which is supervised by the Director, Admissions & Records. Students also have the right to review their personal information at Student Health Services (Nurse, SS-170); Financial Aid Office (Financial Aid Specialist, SS-210); Veterans Office (Clerk, ECOC-1, Rm. 7); SBCC Foundation (Executive Director, A-210); Extended Opportunity Program/Services (Director, SS-240); and Disabled Student Program/Services (Director, SS-160).
• SBCC may provide directory information in accordance with the provisions of FERPA. Designated directory information at SBCC includes the following: confirmation of current enrollment at SBCC, dates of attendance, the degrees/awards received, students on the President's Honor Roll, names of student officers and those who participate in intercollegiate athletics including name,
**48 Student Rights**

- Photograph, weight, height, and high school of attendance of athletic team members.
- Student Records may be released to the SBCC Foundation in connection with a student’s application for, or receipt of financial aid. Personal identification of students may be disclosed only as may be necessary for the purpose of determining eligibility for the SBCC College Promise.
- A student may request a copy of a record which the student has requested or consented to be released. If a student desires a copy of file material subject to his/her review, it will be provided at a cost of $1.00 for the first copy and 50 cents for each additional copy.

Particular questions with respect to a student’s rights under the *Family Educational Rights and Privacy Act of 1974* should be directed to the Dean, Educational Program—Student Support Services, Room SS-260.

**Financial Aid Rights**

A. Students have the right as applicants for/or recipients of financial aid to information about procedures, deadlines, refund policies, eligibility requirements and the appeal process.

B. Students have the right to file a grievance, in the event of an alleged breach of their rights, as outlined in the student grievance policy which is available from the office of the Dean, Educational Programs, Room SS-260.

**Grievance Rights**

A. Students have a right to be informed in writing of the issues and charges, and be given the opportunity to refute the charges, in any conflict relating to student discipline.

B. Students have the right to be free from the imposition of disciplinary sanctions without proper regard for due process.

C. Students have a right to file a grievance, in the event of an alleged breach of their rights, as outlined in the student grievance policy.

For information on grievance procedures, refer to [www.sbcc.edu/boardoftrustees/files/policies/chapter_5_ap/AP%205530%20Student%20Rights_Grievances.pdf](http://www.sbcc.edu/boardoftrustees/files/policies/chapter_5_ap/AP%205530%20Student%20Rights_Grievances.pdf) or contact the Dean, Educational Programs—Student Support Services, Room SS-260.

**Student Success and Support Rights**

A. Each student has the right to develop an individual written student education plan with

- a counselor within 90 days after a specific individual educational goal has been declared.
- Students have the right to have their educational plan reviewed as needed by a counselor/academic adviser to ensure that it continues to accurately reflect the needs and goals of the student.

B. Students may challenge any prerequisite, using the Prerequisite Challenge procedures ([www.sbcc.edu/prerequisites](http://www.sbcc.edu/prerequisites)) on one or more of the following grounds:

1. Student has the knowledge or ability to succeed in the course despite not meeting the prerequisite (e.g., student has prior coursework, assessment levels, certification, license or work experience that satisfies the prerequisite, or by other criteria presented by the student).

2. The prerequisite course has not been made reasonably available (“reasonably available” is defined by the college).

3. The prerequisite is discriminatory or applied in a discriminatory manner.

4. The prerequisite is not necessary for success in the course.

5. The prerequisite approval did not follow SBCC district policy.

D. Students may obtain a waiver of any prerequisite or corequisite course for a particular term because the course is not available to students during two consecutive terms.

E. Students may review the matriculation regulations of the California Community Colleges and file a complaint when they believe the college has engaged in any practice prohibited by these regulations. The regulations are available and complaints may be filed in the office of the Dean, Educational Programs—Student Support Services, Room SS-260.

F. Students may challenge Student Success and Support regulations through the student grievance process available from the Dean, Educational Programs—Student Support Services, Room SS-260.

G. A list of exemptions to Student Success and Support components is available in Admissions, Counseling, or from the Dean, Educational Programs—Student Support Services, Room SS-260.

H. The college’s policy on “registration priorities” is available from the Director, Admissions & Records, Room SS-110.

**Non-Discrimination/Prohibition of Harassment**

The policy of the Santa Barbara Community College District is to provide an educational and employment
environment in which no person shall be denied full and equal access to, the benefits of, or be subjected to discrimination, in whole or in part, on the basis of national origin, religion, age, gender, gender identity, gender expression, race, ethnicity, color, medical condition, genetic information, ancestry, sexual orientation, marital status, physical or mental disability, pregnancy, military and veteran status, or on the basis of these perceived characteristics or based on association with a person or group with one or more of these actual or perceived characteristics, in any program or activity that is administered by, funded directly by, or that receives any financial assistance from the State Chancellor or Board of Governors of the California Community Colleges.

The policy of the Santa Barbara Community College District is to provide an educational and employment environment free from unlawful harassment, including unwelcome sexual advances, requests for sexual favors, sexual favoritism, or other verbal or physical conduct or communications constituting sexual harassment.

The following definition will aid in identifying the kinds of behavior which constitute sexual harassment:

Unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature constitute sexual harassment when:

1. Submission to or rejection of such conduct is made either explicitly or implicitly a term or condition of instruction, employment, or participation in other college activity;
2. Submission to or rejection of such conduct by an individual is used as a basis for evaluation in making academic or personnel decisions affecting an individual; or
3. Such conduct has the purpose or effect of unreasonably interfering with an individual’s performance or creating an intimidating, hostile, or offensive college environment.

The policy of the Santa Barbara Community College District is to comply with the accessibility requirements of Section 508 of the Rehabilitation Act of 1973 in the development, procurement, maintenance, or use of electronic or information technology and respond to and resolve discrimination complaints regarding accessibility. Such complaints will be treated as complaints of discrimination on the basis of disability.

This non-discrimination policy covers admission, access and treatment in college programs and activities—including, but not limited to, academic admissions, financial aid, educational services and athletics—and applications for, and treatment in, college employment.

In conformance with the requirements of Title II of the Educational Amendments of 1976, amending the Vocational Education Act of 1963, the college is committed to overcoming sex discrimination and sex stereotyping in vocational education programs.

Furthermore, in compliance with the Vocational Education Guidelines for Eliminating Discrimination on the Basis of Race, Color, National Origin, Sex and Handicap, lack of English language skills alone will not be a barrier to admission to and participation in vocational education programs. Any screening procedures for vocational programs will evaluate skill levels and proficiencies pertinent to the program as criteria for admission.

Employees, students, or other persons acting on behalf of the district who engage in discrimination as defined in this policy or by state or federal law may be subject to discipline, up to and including suspension, discharge, expulsion, or termination of employment.

Filing of Discrimination Complaint/Additional Information

Students intending to file a complaint regarding any action which they believe discriminates against them, or who require additional information on the policy and procedures may contact Dr. Ben Partee, Dean, Educational Programs—Student Support Services, 721 Cliff Drive, Room SS-260, Santa Barbara, CA 93109-2394. Phone (805) 965-0581, ext. 2237.

Employees, unpaid interns or volunteers intending to file a complaint regarding any action which they believe discriminates against them or who require additional information on the policy and procedures may contact Patricia English, Vice President, Human Resources, 721 Cliff Drive, Room SS-230, Santa Barbara, CA 93109-2394, (805) 965-0581, ext. 4734.

If you are a student and you require additional information regarding the Americans with Disabilities Act (ADA), or Section 504 of the Rehabilitation Act, contact Jana Garnett, 721 Cliff Drive, Room SS-160, Santa Barbara, CA 93109-2394, (805) 965-0581, ext. 2364 [voice].

If you are an employee and you require additional information regarding the Americans with Disabilities Act (ADA), or Section 504 of the Rehabilitation Act, contact Patricia English, Vice President, Human Resources, 721 Cliff Drive, Room SS-230, Santa Barbara, CA 93109-2394, (805) 965-0581, ext. 4734 [voice].
solicitudes de favores sexuales, favoritismos basados en el sexo u otra conducta física o verbal o comunicación que constituye acoso u hostigamiento sexual.

La siguiente definición ayuda a identificar los tipos de comportamientos que constituyen el acoso u hostigamiento sexual:

Las solicitudes sexuales forzadas, solicitudes de favores sexuales y otra conducta verbal o física de naturaleza sexual constituyen acoso u hostigamiento sexual cuando:

1. La sumisión o el rechazo a tal conducta se expresa explícitamente como una condición para la instrucción, el empleo o la participación en una actividad de la universidad;
2. La sumisión o el rechazo a tal conducta por un individuo se usa como base para evaluar y tomar decisiones académicas o de personal que afectan al individuo; o
3. Tal conducta tiene el propósito o efecto de interferir desproporcionadamente con el rendimiento de una persona o de crear un ambiente universitario hostil, intimidador u ofensivo.

La política del Distrito de Santa Barbara Community College es la de cumplir con los requisitos de accesibilidad de la Sección 508 de la Ley de Rehabilitación de 1973 en el desarrollo, consecución, mantenimiento, o uso de información electrónica, o información tecnológica, y responder y resolver las quejas de discriminación relacionadas con la accesibilidad. Tales quejas se tratarán como quejas de discriminación basada en la discapacidad en cuestión.

La política contra la discriminación/Política contra el acoso u hostigamiento sexual:

La política del Distrito de Santa Barbara Community College es la de ofrecer un ambiente educativo y de empleo, en el cual a ninguna persona se le niega el pleno y paritario acceso ni sus beneficios, o ser sujeto de discriminación, totalmente o en parte, en base a su identificación con un grupo étnico, nacionalidad, religión, edad, género, raza, color, ascendencia, orientación sexual, discapacidad física o mental, o en base a la percepción de estas características, o en base a la asociación con una persona o grupo con una o más de estas características, ya sea percibidas o reales, en cualquier programa o actividad administrada, patrocinada directamente, o para la que recibe cualquier asistencia financiera del Canciller del Estado o de la Junta de Gobernadores de las Instituciones Postsecundarias de dos años (California Community Colleges Board of Governors).

La política del Distrito de Santa Barbara Community College es proporcionar un ambiente educativo y de empleo libre de solicitudes sexuales forzadas,
Un programa profesional evaluará los niveles de habilidad y destrezas pertinentes al programa como criterio de admisión.

Los empleados, estudiantes, y otras personas que actúen en nombre del Distrito y que actúen discriminatoriamente tal y como se define en este reglamento o en las leyes del estado o federales, están sujetos a medidas disciplinarias que pueden incluir la suspensión, el despido, la expulsión o la rescisión de contrato.

**Presentación de una queja por discriminación/Información adicional**

Los estudiantes que quieren presentar una queja en relación con cualquier acción que ellos consideran discriminatoria contra ellos, o que requieren información adicional sobre el reglamento y los procedimientos, pueden contactar al Dr. Ben Partee, Decano de Programas Educativos, en 721 Cliff Drive Oficina SS-260, Santa Barbara, CA 93109-2394, o llamando al teléfono (805) 965-0581, extensión 2237.

Los empleados, pasantes no remunerados o voluntarios que quieren presentar una queja en relación con cualquier acción que ellos consideran discriminatoria contra ellos, o que requieren información adicional sobre el reglamento y los procedimientos, pueden contactar a la Vicerrectora Patricia English en oficina de Recursos Humanos (Human Resources), en 721 Cliff Drive, Oficina SS-230, Santa Barbara, CA 93109-2394, o llamando al teléfono (805) 965-0581, extensión 2434.

Si usted es un estudiante y requiere información adicional sobre la Ley de Americanos con Discapacidades (Americans with Disabilities Act -ADA), o la Sección 504 de la ley de Rehabilitación (Rehabilitation Act) póngase en contacto con la Jana Garnett Directora de ADA/504/DSPS, en 721 Cliff Drive, Oficina SS-160, Santa Barbara, CA 93109-2394, (805) 965-0581, extensión 2364.

Si usted es empleado o empleada y requiere información adicional sobre la Ley de Americanos con Discapacidades (Americans with Disabilities Act -ADA), o la Sección 504 de la ley de Rehabilitación (Rehabilitation Act) póngase en contacto con Patricia English, Vice President, Human Resources, encargada de la oficina de Recursos Humanos, en 721 Cliff Drive, oficina SS-230, Santa Barbara, CA 93109-2394, o llamando al teléfono (805) 965-0581 extensión 2434.

El coordinador de ADA/504 para los empleados es, Vice President Patricia English, encargada de la oficina de Recursos Humanos, en 721 Cliff Drive, Oficina SS-230, Santa Barbara, CA 93109-2394, (805) 965-0581, extensión 2434.

La coordinadora de Title IX es Dr. Ben Partee, Decano de Programas Educativos, en 721 Cliff Drive Oficina SS-260, Santa Barbara, CA 93109-2394, o llamando al teléfono (805) 965-0581, extensión 2237.


**Student Responsibilities**

It is the responsibility of each student at Santa Barbara City College to be a responsible member of the college community by reading and complying with the published policies, procedures, rules and regulations of the college, as outlined in this Catalog, the Schedule of Credit Classes and other official materials, including online publications at www.sbcc.edu. The following are some of the most frequently referenced policies and administrative procedures.

**Academic Integrity Policy**

(HP 5550; AP 5550)

These procedures expand, clarify and set forth clear levels of authority and disciplinary protocols in response to academic dishonesty, as referenced in Santa Barbara City College’s Standards of Student Conduct.
 Definitions
Academic dishonesty is defined as an act of obtaining or attempting to present academic work through fraudulent or deceptive means in order to obtain credit for this work. Academic dishonesty includes, but is not limited to:

Cheating—failure to observe the expressed procedures of an academic exercise, including, but not limited to:
• Unauthorized use of commercial “research” services, such as term papers
• Providing information to others without instructor’s permission or allowing the opportunity for others to obtain information that provides the recipient with an advantage on an exam or assignment
• Unauthorized communicating with fellow students during a quiz or exam
• Copying material from another student’s quiz or exam
• Permitting another student to copy from a quiz or exam
• Permitting another person to take a quiz, exam, or similar evaluation in lieu of the enrolled student
• Using unauthorized materials, information, or study aids (e.g., textbook, notes, data, images, formula list, dictionary, calculator, etc.) in any academic exercise or exam
• Unauthorized collaboration in providing or requesting assistance, such as sharing information on an academic exercise or exam through cell phones and texting
• Unauthorized use of another person’s data in completing a computer or lab exercise
• Using computer and word processing systems to gain access to, alter and/or use unauthorized information
• Altering a graded exam or assignment and requesting that it be re-graded; submission of altered work after grading shall be considered academically dishonest, including, but not limited to, changing answers after an exam or assignment has been returned or submitting another’s exam as one’s own to gain credit
• Attempting to hinder the academic work of another student

Fabrication—falsification or invention of any information in an academic exercise, including, but not limited to:
• Fabricating or altering data to support research
• Presenting results from research that was not performed; submitting material for lab assignments, class projects or other assignments, which is wholly or partially falsified, invented or otherwise does not represent work accomplished or undertaken by the student
• Crediting source material that was not directly used for research
• Falsification, alteration or misrepresentation of official or unofficial records or documents, including, but not limited to, academic transcripts, academic documentation, letters of recommendation, and admissions applications or related documents

Fraud, Misrepresentation, Lying—intentionally making an untrue statement or deceiving including, but not limited to:
• Providing an excuse for an absence, tardiness, or late assignment with the intent to defraud the instructor, staff or the college
• Checking into a District class, lab, center or other District resource with the intent to defraud instructors, staff or the college
• Checking in or checking out of a District class, lab, center or other District resource for another student
• Using another student’s District identification card for use in a class, lab, center or other District resource

Plagiarism—the presentation of another’s words, images or ideas as if they were the student’s own, including, but not limited to:
• Stealing the written, oral, artistic, or original works or efforts of others and presenting them as one’s own
• The submission of material, whether in part or whole, authored by another person or source (e.g., the internet, book, journal, etc.), whether that material is paraphrased, translated or copied in verbatim or near-verbatim form without properly acknowledging the source. (It is the student’s responsibility to cite all sources.)
• The submission of material edited, in part or whole, by another person that results in the loss of the student’s original voice or ideas (i.e. while an editor or tutor may advise a student, the final work submitted must be the work of the student, not that of the editor or tutor)
• Translating all or any part of material from another language and presenting it as if it were the student’s own original work
• Unauthorized transfer and use of another person’s computer file as the student’s own
• Unauthorized use of another person’s data in completing a computer exercise
Multiple Submissions—resubmission of a work with identical or similar content that has already received credit in a high school or another college course, including but not limited to:

- Resubmission of work with identical or similar content from a past course in a current course without written consent of the present instructor
- Submission of work with identical or similar content in concurrent courses without written consent of all instructors involved
- When retaking a course, resubmission of work with identical or similar content from the past section of the same course without written consent of the present instructor

Facilitating Academic Dishonesty—assisting another to commit an act of academic dishonesty, including, but not limited to:

- Taking a quiz, exam, or similar evaluation in place of another person
- Allowing one student to copy from another
- Attending a course posing as another student who is officially registered for that course
- Providing material or other information (e.g., a solution to homework, a project or other assignments, a copy of an exam, exam key or any test information) to another student with knowledge that such assistance could be used to violate any other sections of this procedure
- Distribution or use of notes or recordings based on college classes without the express written permission of the instructor for purposes other than individual or group study; this includes, but is not limited to, providing materials for distribution by services publishing class notes. (This restriction on unauthorized use applies to all information distributed or in any way displayed for use in relationship to the class, whether obtained in class, via e-mail, on the Internet or via any other media.)

Culpability is not diminished when academic dishonesty occurs in drafts which are not the final version or when the student claims not to know the policy or procedures.

First Offense in a Course or Non-Course Activity

In course-related activities, when a student commits a first offense, decisions regarding the severity of penalties imposed for academic dishonesty shall reside with the instructor. An instructor may give written or verbal notice to a student that continuation or repetition of specified conduct may be cause for further disciplinary action. If the instructor chooses further disciplinary action, the instructor shall notify the student, the appropriate department chair, and Chief Student Services Officer or designee, of the incident and the penalties imposed on an “Academic Integrity Violation Form”. The Chief Student Services Officer or designee, shall retain this documentation in his/her files.

In non-course activities, when a student commits a first offense, the appropriate District employee shall notify the appropriate Dean, Educational Programs, of the incident and the Chief Student Services Officer or designee, of the penalties imposed using the “Academic Integrity Violation Form”.

Penalties for the first offense may include the following:

- A failing grade on the assignment, paper or exam. Violations related to placement shall nullify course placement for the term
- Temporary exclusion from an activity or class: An instructor may remove a student who is in violation of the guidelines for student conduct for the duration of the class period or activity during which the violation took place and, if necessary, for the following class meeting
- An additional assignment: An instructor may require the student to perform additional academic work

The student may appeal the determination of academic dishonesty and/or penalty using the discipline appeal procedure as outlined in AP 5520 Student Discipline Procedures.

Multiple Offenses in a Course or Non-Course Activity

In course-related activities, when a student commits a second or multiple offense(s), decisions regarding the severity of penalties imposed for academic dishonesty shall reside with the instructor and the Chief Student Services Officer or designee. The instructor shall notify the student, the appropriate department chair, and Chief Student Services Officer or designee, of the incident and the penalties imposed using the “Academic Integrity Violation Form.”

In non-course activities, when a student commits a second or multiple offense(s), the Assessment Technician or other appropriate staff member shall notify the appropriate Dean, Educational Programs of the incident and the Dean shall notify the student and Chief Student Services Officer or designee of
the incident and the penalties imposed using the “Academic Integrity Violation Form.”

Penalties for the second or multiple offense(s) may include penalties listed for the first offense and penalties detailed below under the heading Multiple Offenses at the College.

The student may appeal the determination of academic dishonesty and/or penalty using the discipline appeal procedure outlined in AP 5520 Student Discipline Procedures.

Multiple Offenses at the College
When the Chief Student Services Officer or designee), has determined that an academic dishonesty infraction is a second such offense or multiple offenses, he/she shall initiate institutional action. Penalties may include, in addition to those listed above:

- **Censure:** A verbal reprimand or recorded written statement which details how a student’s conduct violates District regulations. The student receiving such a verbal or a written statement shall be notified that such continued conduct or further violation of District regulations may result in further disciplinary action.

- **Disciplinary Probation:** May consist of removal from all college clubs and organizations and denial of privileges of participating in all District or student-sponsored activities including public performances. Disciplinary probation may be imposed for a period not to exceed one year and can be rendered by an administrator. Notification of disciplinary probation actions shall be immediately reported in writing to the Chief Student Services Officer. A student placed on disciplinary probation may appeal to the Chief Student Services Officer. Records of disciplinary probation actions shall be retained in the office of the Chief Student Services Officer or designee and in the student’s file. A student has no right to appeal or to due process hearing (Education Code Section 76031).

- **Disciplinary Suspension:** A student may be suspended from one or more classes for a period of up to ten days of instruction; from one or more classes for the remainder of the term; or from all classes and activities of the District for one or more terms. A suspended student may also be prohibited from occupying any portion of the campus and be denied participation in any or all college activities. Disciplinary suspensions shall be initiated by the Chief Student Services Officer and are subject to the Due Process Hearing and Appeal Procedures set forth in Section E of AP 5520 Discipline Procedures. Records of disciplinary suspensions shall be retained in the office of the Chief Student Services Office and in the student’s file (Education Code Sections 66017, 76030 and 76031).

- **Expulsion:** the permanent and unconditional removal of a student from the District. A student may be expelled only by the Board of Trustees upon recommendation of the Superintendent/President. The expulsion of a student is initiated by Chief Student Services Officer and is determined according to the Due Process Hearing and Appeal Procedures set forth in Sections E and F of AP 5520 Student Discipline Procedures (Education Code Section 76030).

Alcohol and Drug Use Policy
The Drug-Free Schools and Communities Act Amendments of 1989 require institutions of higher education to implement a drug prevention program, which includes the annual dissemination of the following policy on alcohol and drug use:

Santa Barbara City College is committed to the success of each student and, as a college it realizes that the use of alcohol and drugs can be a major impediment to success.

There are physical and psychological health risks associated with drug and alcohol use, including decreased immunity, exhaustion, decreased muscle coordination, depression, confusion and paranoia, among other conditions. In most cases, anyone who uses drugs and abuses alcohol can expect a decline in the quality of his/her life and difficulty with academic success.

The Student Health Services Program offers educational programming, peer health education programs, resources and counseling, as well as referrals to community service agency counseling and rehabilitation programs.

According to the Standards of Student Conduct, possession, use or distribution of illicit drugs and alcohol on college property or during campus-related activities are subject to disciplinary action. This can be up to, and including, expulsion from SBCC, as well as punishment under California State law, including from six months to one year in county jail, or up to five years in state prison.
Animals on Campus
Except for service animals for people with disabilities, animals are not allowed on campus. At no time should dogs be left in vehicles. Animals will be controlled by the local Animal Control Department. Questions on college and municipal regulations in this area should be directed to the Campus Security Office.

Attendance
All students enrolled at Santa Barbara City College are expected to be punctual and to attend class regularly. Students who are not in attendance at the first class meeting are considered “no-shows” and the instructor may drop such persons in order to give their seats to non-registered students seeking to enroll. Also, an instructor may withdraw a student from semester-length courses at any time for excessive absence through the 9th week of the Fall/Spring semesters, and the 60% point of the class for Summer and courses less than a semester in length. As a guideline, absence is considered excessive if a student misses three (3) meetings, or the equivalent of one week of class attendance or according to absence guidelines as published in the course syllabus.

Absence due to a verified illness may be accepted as an excused absence for a limited period of time. Students are expected to notify their instructor by e-mail and/or phone message if they are absent for a medical reason. Students are expected to make appointments for medical and dental treatments at times other than when classes are scheduled. Students anticipating or encountering extended absences due to medical, personal or family emergencies should contact the Dean, Educational Programs—Student Support Services, Room SS-260, (805) 730-4078.

It is the student’s responsibility to officially withdraw online or in person in Admissions & Records prior to the published deadline. Students failing to officially withdraw may receive an “F”, “FW” or “NP” grade.

College Records
It is the responsibility of each student to:
1. Inform Admissions & Records of changes in personal data.
2. Withdraw officially from the college or drop classes when the student stops attending and to observe established deadlines.
3. Submit legal, not fraudulent, documents.
4. Repay any money received or owed as a result of the submission of fraudulent documentation or any other reason.

Conduct
Santa Barbara City College is firmly committed to principles of honor, integrity, mutual respect and responsible citizenship. These values are embodied within the college’s Honor Code. The Honor Code is the keystone to the college’s belief that its students should act honorably and responsibly in all aspects of life, both on- and off-campus. The Honor Code incorporates the fundamental principles of honor, respect, citizenship and integrity in both personal conduct and academic work.

An effective honor code depends upon each student adhering to the spirit and letter of its principles. It demands accountability on the part of each student for his or her actions. Its essence is that any violation of this Code is an offense against the college community as a whole. The Honor Code is binding on all students and applies to all phases of student life at Santa Barbara City College. Students are responsible for their conduct at all times and shall be subject to disciplinary action for behavior that discredits themselves or Santa Barbara City College.

Honor Code
As a citizen of an academic community built upon a framework of trust, respect, integrity and honor, I pledge to uphold the values of the Santa Barbara City College Honor Code.

Academic Promise—I pledge truthfulness and absolute honesty in my performance on all academic work and pledge that all such work is a product of my efforts unless specifically assigned to be undertaken in a collaborative manner.

Community Promise—I pledge to be truthful at all times, to treat others with civility and respect, to respect the property of others and to adhere to Santa Barbara City College policies, administrative procedures and standards of student conduct.

Accepting both the privileges and responsibilities of living by this code of honor, I resolve to uphold this code and not to tolerate any violations of its spirit or principles.

As a commitment to these principles of honor and responsible citizenship, Santa Barbara City College students will be asked to read and sign the Honor Code as part of the application process.

Education Code Section 66300 states that the Board of Trustees shall adopt specific rules and regulations governing student behavior, along with
applicable penalties, and that each student shall be provided with a copy of such policies. In compliance with this Education Code Section, the Board approved Standards of Student Conduct policies. A copy of these policies is available at Admissions & Records, SS-110 and are also available from the Dean, Educational Programs—Student Support Services, SS-260.

Financial Aid Satisfactory Progress Standards
Federal regulations mandate that all institutions of higher education establish minimum standards of “satisfactory academic progress” for students receiving financial assistance.

All students who apply for and receive financial assistance are expected to meet the academic standards described in Santa Barbara City College’s Financial Aid Satisfactory Academic Progress Policy.

Copies of the Financial Aid Satisfactory Academic Progress Policy are available in the Financial Aid Office, Room SS-210, or read it online at www.sbcc.edu/financialaid under Downloadable Forms.

Responsibilities
It is the responsibility of an applicant for, and recipient of, financial aid to:
1. Provide complete and accurate information regarding financial aid enrollment status, and any changes which may occur, knowing that he/she is responsible for any consequences which may result from misreporting information.
2. Understand the college’s refund policy.
3. Understand the college’s academic standards policy.
4. Repay all student loans and notify the lender of any changes in name, address, or enrollment status.
5. Perform the work that is agreed upon on acceptance of a Federal Work Study (FWS) award.

Injury/Accident Reporting
All accidental student injuries must be reported to the Student Health Services Office Room SS-170 within 72 hours of the incident to be eligible for student accident policy insurance coverage. This coverage is limited to accidental injuries, as defined by the insurance policy, while participating in college classes or activities and is secondary to any other medical insurance the student may have. Coverage and limitations are outlined in a brochure available in the Student Health Services Office.

Smoke-Free Workplace Policy
It is the intent of the college’s governing Board of Trustees to maintain a workplace that is conducive to the health and safety of our students and employees. Realizing the health hazards posed by smoking and by second-hand smoke, it is the policy of the Santa Barbara Community College District to maintain a smoke-free campus. In addition, the use of smokeless tobacco is prohibited in any campus facility.

This policy pertains to students, faculty, staff, administrators, visitors and the general public attending campus events.

This policy shall apply to all SBCC facilities, owned or leased, regardless of location, and all state and auxiliary vehicles.

Tobacco products shall not be commercially sold or distributed in any manner on campus. This includes free samples distributed by vendors. Advertising and sponsorship of campus events by tobacco companies is also prohibited.

The campus shall make available to students, faculty, staff and administrators information about smoking-cessation programs.

Smokers are requested to refrain from smoking while on campus. In any dispute arising under this policy, the rights of the non-smoker shall have preference. The district’s Grievance Policy may be used in cases of unresolved disputes regarding this policy.

This policy is compliant with State law AB-846, Chapter 342, Sections 19994.30 and 19994.33, of the Government Code Relating to Tobacco.

Student Success and Support Responsibilities
It is the responsibility of the matriculated student to:
1. Identify an education and career goal.
2. Cooperate with the college in the development of an Individual Educational Plan within the prescribed time period and to abide by the terms of that plan.
3. Participate in counseling if the student is an undecided student, is on probation, and/or is enrolled in English, reading or math courses that do not count toward the Associate Degree.
4. Diligently engage in course activities and complete assigned coursework.
5. Complete courses and maintain progress toward an educational goal and completing a course of study.

It is the responsibility of the College to:
1. Take steps to ensure information regarding its matriculation policies and procedures are accessible and available to students.
2. Ensure that once a student has identified a course of study and completed 15 semester units of degree applicable course work the college shall provide the student with an opportunity to develop a comprehensive student education plan.

Parking and Traffic Regulations

Bikes, Skating and Skateboarding
Students are requested by the Campus Security Office to observe the following rules and advisories regarding bicycles, roller skating and skateboarding: (1) On campus, ride your bike on designated bike routes only; (2) have your bike registered with the City of Santa Barbara; (3) park and lock your bike in the bike racks provided; (4) bikes parked illegally will be impounded; (5) if you use your bike for transportation to and from campus, be sure to have sufficient lights and reflectors for night riding and good visibility; and (6) no roller device (roller skates, roller blades, skateboards, coasters, scooters, toy vehicles, or any similar device) is permitted on campus at any time.

Disabled Student Parking
Certain areas on the Santa Barbara City College campus have been designated for parking by disabled/handicapped students. Those students with significant disabilities may obtain authorization to park in such areas. Disabled parking permits may be applied for through the DSPS Office, Room SS-160. All vehicles parked in “Handicapped” zones must display the fee parking permit and a handicapped symbol. “Handicapped” zone violators will receive a $350 citation.

Mopeds and Motorcycles
Permits are not required for mopeds and motorcycles. However, they may be parked only in the designated areas for such vehicles on campus.

Parking and Traffic Enforcement
In accordance with the vehicle code, parking citations will be given for illegally parked vehicles in all campus parking lots. Payments should be submitted to the Cashier’s Office, Room SS-150. Illegally parked vehicles may be towed away at the owner’s expense. Vehicles with 5 or more outstanding citations may be subject to immobilization. The penalty fee schedule ranges from $20 to $350. If left unpaid for more than 21 days, a citation’s cost doubles in price. Failure to pay for the citation or make appearance, as required, will result in further legal action.

Permit Parking
Any student who intends to park a vehicle on campus must purchase a parking permit or pay for metered parking. A Day permit is $33.25; Evening Only, $18.25; Summer permits, $18.25. Permits may be purchased online at http://pipeline.sbcc.edu. Student parking areas are provided along Loma Alta Drive, Shoreline Drive (beach frontage) Pershing Park and in West Campus lots. Cars are to be parked in those places specifically designated for students.

Academic Standards/Policies

Policy
The Board of Governors of the California Community Colleges has adopted the following community college criteria and standards, as stated in the California Code of Regulations, Title 5, Chapter 6, Sub-chapter 1, Article 1:

Definitions
Corequisite—means a condition of enrollment consisting of a course that a student is required to simultaneously take in order to enroll in another course. Where specified, some courses may be taken prior to or simultaneously in order to enroll in another course.

Course—means an organized pattern of instruction on a specified subject offered by a community college pursuant to subdivisions (a), (b) or (c), Section 55002.

Course advisory—means a condition of enrollment that a student is advised, but not required, to meet before or in conjunction with enrollment in a course or educational program.

Degree-applicable credit courses—are those courses which have been designated as appropriate to the Associate Degree in accordance with the requirements of Section 55062, and which have been recommended by the college and/or district curriculum committee and approved by the district governing board as collegiate courses meeting the needs of students. Degree-applicable courses at SBCC are numbered 100 and above in this Catalog.

Educational program—is an organized sequence of courses leading to a defined objective, a degree, a certificate, a diploma, a license, or transfer to another institution of higher education.

Noncredit basic skills courses—are those courses In reading, writing, computation, and English...
as a Second Language which are designated by the community college district as noncredit courses pursuant to subdivision (c) of section 55002.

**Non-degree applicable**—are those courses which do not apply towards the unit requirement of the Associate Degree. Non-degree applicable courses at SBCC are numbered below 100 in this Catalog.

**Non-degree applicable basic skills courses**—are those in reading, writing, computation and English as a Second Language which are designated by the community college district as non-degree applicable credit courses pursuant to subdivision (c) of Section 55002.

**Prerequisite**—means a condition of enrollment that a student is required to meet in order to demonstrate current readiness for enrollment in a course or educational program.

**Satisfactory grade**—means that, for the course in question, the student’s academic record has been annotated with the symbol A+, A, A-, B+, B, B-, C+, C or P as those symbols are defined in Section 55023.

### Criteria and Standards

A credit course is one which, at minimum:

1. Is recommended by the responsible college officials and the curriculum committee as being of appropriate rigor and has been approved by the local district governing board and the Chancellor of the California Community Colleges as a collegiate course meeting the needs of students eligible for admission.
2. Is taught by a credentialed instructor.
3. Is offered as described in a course of study outline in official college files. That outline shall specify the unit value, number of contact hours for the course as a whole, the prerequisites, corequisites or advisories for the course, the catalog description, scope, objectives and content in terms of a specific body of knowledge, required reading and writing assignments, and other outside-of-class assignments, instructional methodology and methods of evaluation for determining whether the stated objectives have been met by students.
4. Is taught in accordance with a set of instructional objectives common to all students as outlined in the course of study outline.
5. Provides for measurement of student performance in terms of the stated objectives and culminates in a formal, permanently recorded grade, based upon uniform standards in accordance with Section 55023. The grade is based on demonstrated proficiency in subject matter and the ability to demonstrate that proficiency, at least in part, by means of essays, or, in courses where the curriculum committee deems them to be appropriate, by problem-solving exercises or skills demonstrations by students.
6. Grants units of credit based upon a relationship specified by the governing board between the number of units assigned to the course and the number of lecture and/or laboratory hours or performance criteria specified in the course outline. The course also requires a minimum of three hours of student work per week, including class time for each unit of credit, prorated for short-term, extended term, laboratory and/or activity courses.
7. Treats subject matter with a scope and intensity which requires students to study independently outside of class time.
8. Requires, when the college deems appropriate, entrance skills and consequent prerequisites for the course before the students are enrolled.
9. When the college and/or district curriculum committee determines, based on a review of the course outline of study, that a student would be highly unlikely to receive a satisfactory grade unless the student has knowledge or skills not taught in the course, then the course shall require prerequisites or corequisites that are established, reviewed and applied in accordance with Section 55003.
10. Requires, in order to participate in the course, the ability to think critically and apply concepts at levels determined by the curriculum committee to be college-level.
11. Requires learning skills and a vocabulary which the curriculum committee deems appropriate for a college course.
12. Requires that educational materials used be judged by the curriculum committee to be college-level.
13. Repeated enrollment is allowed only in accordance with the provisions of Section 51002, Article 4 (commencing with Section 55040) of sub-chapter 1 of Chapter 6, and Section 58161.

A noncredit course is one which, at minimum:

1. Is recommended by the responsible college officials and the Curriculum Committee if the course treats subject matter and uses resource
materials, teaching methods, and standards of attendance and achievement that the committee deems appropriate for enrolled students. The course has been approved by the local district governing board and the Chancellor of the California Community Colleges.

2. The course is described in a course outline of record which is maintained in official college files and made available to each instructor. The course outline of record shall specify the number of contact hours normally required for a student to complete the course, the catalog description, the objectives, contents in terms of a specific body of knowledge, instructional methodology, examples of assignments and/or activities and methods of evaluation for determining whether the stated objectives have been met.

3. All sections of the course are to be taught by a qualified instructor.

**Academic Dismissal**
A student shall be placed on academic dismissal if the student has earned a cumulative grade point average of less than 2.0 in all units attempted at the college in each of the two (2) most recent regular Fall or Spring semesters of attendance through first census. (For purposes of this section, semesters shall be considered consecutive on the basis of the student’s enrollment, i.e., a Fall Semester followed by a Fall Semester shall be consecutive if the student was not enrolled for the intervening Spring Semester.)

A student placed on academic dismissal will be dismissed from the college for the subsequent semester. The student may petition the Dean, Educational Programs—Student Support Services, to be reinstated and if approved will be permitted to enroll in the following semester, or after one or more semester (s) not in attendance the student may reapply and will be readmitted.

**Academic Dismissal Exception:** When a student completes six (6) or more units and earns a GPA of 2.0 or higher for the current semester (for purposes of this exception, “Pass” is calculated as a “C” grade for the current semester only), the student will be automatically permitted to reenroll for each additional semester in which he/she satisfies the exception criteria or until the student returns to academic good standing. During the exception period, the student will retain academic dismissal exception status and may be subject to unit, course and/or other conditions deemed appropriate by the Office of the Dean, Educational Programs—Student Support Services.

**Academic Due Process**
Procedures for due process are described in the District’s Student Rights and Grievances (AP 5530). Copies are available at www.sbcc.edu/boardoftrustees/files/policies/chapter_5_ap/AP%205530%20Student%20Rights_Grievances.pdf and from the Office of the Dean, Educational Programs—Student Support Services, Room SS-260.

**Academic Freedom**
Freedom of expression is a legal right protected by the Constitution of the United States. Members of the faculty of Santa Barbara City College are entitled to freedom of expression, provided such expression does not impede or prevent responsible performance of job requirements or interfere with the mission and goals of Santa Barbara City College (SBCC). SBCC faculty members are entitled to freedom in the classroom and/or other teaching environments in discussing their subject matter. Controversy is a normal aspect of free academic inquiry and teaching, and it is proper to incorporate both the knowledge and beliefs of the faculty member into that which is taught; however, the freedom to teach must be joined by a constant effort to distinguish between knowledge and belief. Faculty members should allow the expression of differing points of view, while being careful to avoid the repeated and excessive intrusion of material that has no relation to their subject matter. See BP 4030 Academic Freedom for the complete policy.

**Academic Good Standing**
A student who earns and maintains a grade point average (GPA) of 2.0 or higher in all graded units for courses taken at Santa Barbara City College shall be considered to be in Academic Good Standing.

**Academic Probation**
A student who has attempted at least twelve (12) cumulative graded units at the college, as shown by the official college transcript, shall be placed on academic probation if the student has earned a cumulative grade point average (GPA) below 2.0 in all graded units at Santa Barbara City College. Academic Probation shall not be noted on the official transcript. Students placed on academic probation may be subject to unit and course limitations and/or other conditions of enrollment.
A student on academic probation shall be removed from probation and returned to academic good standing when the student’s cumulative grade point average is 2.0 or higher.

Academic Renewal
Courses in which students have previously received sub-standard grades and which are not reflective of a student’s demonstrated ability, may be disregarded in the computation of the SBCC grade point average when a student-initiated petition has been approved by the Scholastic Standards Committee. A student may request academic renewal for not more than two semesters of sub-standard coursework completed at SBCC (substandard coursework is defined as D+, D, D-, F or FW grades). There shall be at least 12 months between the end of the semester or summer session during which the last courses to be alleviated are completed and the date of initiation of the petition. The student must provide evidence of recent academic success demonstrated by the following:
- 12 semester units with a 3.0 GPA, or
- 15 semester units with a 2.5 GPA, or
- 20 semester units with a 2.0 GPA

Students using coursework from another regionally accredited college to meet the criteria must submit an official copy their transcript(s) with the Academic Renewal Petition.

Currently enrolled SBCC students must also attach a current Student Education Plan (SEP) completed with an Academic Counselor.

A student may request academic renewal only once. When a student’s Academic Renewal Petition is approved by the Scholastic Standards Committee, the student’s record will be annotated by Admissions & Records so that it is readily evident to all users of the record that no units alleviated by academic renewal will apply toward units for graduation or other unit commitment. All work, however, will remain legible on the permanent record to insure a true and complete academic history. This policy is adopted for use at SBCC. SBCC does not guarantee that other colleges will approve our Academic Renewal policy. This determination is made by the respective transfer institution.

Further information may be obtained from the Academic Counseling Center or Admissions & Records.

Academic Standing
Graduating With Honors
At graduation, AA/AA-T/AS/AS-T Degree candidates, with a 3.5 cumulative GPA, will receive special recognition as graduating with honors.

President’s Honor Roll
Each semester, Santa Barbara City College includes on the President’s Honor Roll: Full-time students who have completed twelve (12) units of letter-graded courses with a grade point average of 3.5, or better. In addition, students who have accumulated eighteen (18) graded units or more at Santa Barbara City College, with a cumulative grade point average of 3.5 or higher, and have completed a minimum of six (6) graded units with a 3.5 GPA during the semester, are included on the President’s Honor Roll: Part-time students. Pass/No Pass grades are not considered.

Advanced Placement
Students who have completed Advanced Placement (AP) Examinations of the College Entrance Examination Board with scores of 3, 4, or 5 may receive credit at Santa Barbara City College for each advanced placement course as listed in the chart to follow.

Credit awarded through advanced placement MAY be used to satisfy graduation requirements toward the Department Award, Skills Competency Award, Certificate of Achievement and Associate Degree. The units earned from AP credit will not apply toward financial aid nor can they be used to satisfy the 15-unit residency requirement for graduation.

A score of 3, 4, or 5 is required to grant credit for IGETC and CSU GE certification. Each AP exam may be applied to one IGETC/CSU GE area as satisfying one course requirement, with some exceptions (see 2015-2016 Advanced Placement Chart). Students who have earned credit from an AP exam should not take a comparable college course because transfer credit will not be granted for both. The CSU policy for AP can be found at http://calstate.edu/transfer/requirements/AdvancedPlacementAPCourses.shtml. Note that each campus in the California State University system determines how it will apply external examinations toward credit in the major. For information about course credit awarded toward the major by each CSU campus, contact the individual campus. For information about the UC policy for AP and about
Progress Dismissal
A student who has enrolled in at least twelve (12) semester units since summer 1983 at Santa Barbara City College, as shown by the official academic record, shall be placed on progress dismissal when 50% or more of the cumulative units in which he/she has enrolled at the college are W, I and No Pass grades for each of the two (2) most recent regular Fall or Spring semesters of attendance through first census. (For purposes of this section, semesters shall be considered consecutive on the basis of the student’s enrollment, i.e., a Fall semester followed by a Fall Semester shall be consecutive if the student was not enrolled for the intervening Spring Semester.) A student placed on progress dismissal will be dismissed from the college for the subsequent semester. The student may petition the Dean, Educational Programs—Student Support Services, to be reinstated and if approved will be permitted to enroll for the following semester, or after one or more semester(s) not in attendance the student may reapply and will be readmitted.

Progress Dismissal Exception: When a student completes more than 50% of the units taken during the current semester and has completed a minimum of six (6) units, the student will be automatically permitted to re-enroll for each additional semester in which he/she satisfies the exception criteria, or until the student returns to progress good standing. During the exception period, the student will retain progress disqualification exception status and may be subject to unit, course and/or other conditions deemed appropriate by the Office of the Dean, Educational Programs—Student Support Services.

Progress Good Standing
A student who has completed more than 50% of all courses, with other than W, I and No Pass grades, as shown by the official academic record, shall be considered to be in progress good standing.

Progress Probation
A student who has enrolled in at least twelve (12) semester units since Summer 1983 at Santa Barbara City College, as shown by the official academic record, shall be placed on progress probation when the percentage of the cumulative units for which entries of W, I and No Pass are recorded reaches or exceeds fifty per cent (50%). The student shall be removed from progress probation when the cumulative percentage of all W, I or No Pass units drops below 50%. Progress probation shall not be noted on the official transcript. Students placed on progress probation may be subject to unit and course restrictions and/or other conditions of enrollment.

Readmission after Dismissal
A student placed on academic and/or progress disqualification who is dismissed may after one semester not in attendance reapply for admission and will be readmitted. A student may appeal the academic or progress dismissal by petitioning the Dean, Educational Programs—Student Support Services (SS-260). Extenuating circumstances, such as, but not limited to, medical, psychological and legal reasons, and evidence of benefit, are considered. Dismissed students who are reinstated by petition or by administrative action or those re-enrolling after one or more semesters of absence may be subject to unit and course limitations and/or other conditions, such as required participation in support services designed to improve student success.

Students dismissed based on violations of the Standards of Student Conduct may be readmitted or reinstated subject to the terms of the suspension and/or dismissal.
## 2016-2017 Advanced Placement Chart

Visit [http://articulation.sbcc.edu/ap/ap.pdf](http://articulation.sbcc.edu/ap/ap.pdf) for the most current information on Advanced Placement credit.

<table>
<thead>
<tr>
<th>Advanced Placement Exam</th>
<th>Score</th>
<th>SBCC Semester Associate Degree Units Awarded</th>
<th>SBCC GE Credit Area/s</th>
<th>Course Equivalent for SBCC’s Associate Degree or Certificate</th>
<th>Minimum CSU Transferable Semester Units Awarded</th>
<th>UC Transferable Semester Units Awarded</th>
<th>CSU GE Credit Area/s and Semester Units for CSU GE</th>
<th>IGETC Credit Area/s and Semester Units for IGETC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art History</td>
<td>3,4,5</td>
<td>3.0 C ART 103 or 104</td>
<td>6.0</td>
<td>5.3</td>
<td>C1 or C2 (3 units)</td>
<td>3A or 3B (3 units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Biology</td>
<td>3,4,5</td>
<td>4.0 A None</td>
<td>6.0</td>
<td>5.3</td>
<td>B2 &amp; B3 (4 units)</td>
<td>5B &amp; 5C (4 units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calculus AB</td>
<td>3,4,5</td>
<td>5.0 D2 &amp; E1 MATH 150</td>
<td>3.0 (maximum credit, one exam for all Calculus exams)</td>
<td>2.7 (5.3 units maximum for both Calculus exams)</td>
<td>B4 (3 units)</td>
<td>2A (3 units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calculus BC</td>
<td>3,4,5</td>
<td>5.0 D2 &amp; E1 MATH 160</td>
<td>6.0 (maximum credit, one exam for all Calculus exams)</td>
<td>5.3 (5.3 units maximum for both Calculus exams)</td>
<td>B4 (3 units)</td>
<td>2A (3 units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calculus BC/AB Subscore §</td>
<td>3,4,5</td>
<td>5.0 D2 &amp; E1 MATH 150</td>
<td>3.0 (maximum credit, one exam for all Calculus exams)</td>
<td>2.7 (5.3 units maximum for both Calculus exams)</td>
<td>B4 (3 units)</td>
<td>2A (3 units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chemistry</td>
<td>3,4,5</td>
<td>4.0 A CHEM 101</td>
<td>6.0</td>
<td>5.3</td>
<td>B1 &amp; B3 (4 units F09 &amp; after, 6 units prior to F09)</td>
<td>5A &amp; 5C (4 units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chinese Language and Culture</td>
<td>3</td>
<td>5.0 C CHIN 102</td>
<td>6.0</td>
<td>5.3</td>
<td>C2 (3 units)</td>
<td>3B &amp; 6A (3 units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chinese Language and Culture</td>
<td>4</td>
<td>5.0 C CHIN 103</td>
<td>6.0</td>
<td>5.3</td>
<td>C2 (3 units)</td>
<td>3B &amp; 6A (3 units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chinese Language and Culture</td>
<td>5</td>
<td>5.0 C None</td>
<td>6.0</td>
<td>5.3</td>
<td>C2 (3 units)</td>
<td>3B &amp; 6A (3 units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Computer Science: A</td>
<td>3,4</td>
<td>TBD None</td>
<td>TBD</td>
<td>3.0 (maximum credit, one exam for both Computer Science exams. Computer Science AB no longer offered)</td>
<td>1.3 (2.7 units maximum for both Computer Science tests. Computer Science AB no longer offered)</td>
<td>None</td>
<td></td>
<td></td>
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<tr>
<td>Computer Science: A</td>
<td>5</td>
<td>3.0 None</td>
<td>CS 105</td>
<td>3.0 (maximum credit, one exam for both Computer Science exams. Computer Science AB no longer offered)</td>
<td>1.3 (2.7 units maximum for both Computer Science tests. Computer Science AB no longer offered)</td>
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<tr>
<td>English Language and Composition</td>
<td>3, 4</td>
<td>3.0 D1 ENG 110</td>
<td>6.0</td>
<td>5.3 (5.3 units maximum for both English exams)</td>
<td>A2 (3 units)</td>
<td>1A (3 units)</td>
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<tr>
<td>English Language and Composition</td>
<td>5</td>
<td>6.0 D1 &amp; D2 or C ENG 110 &amp; 111</td>
<td>6.0</td>
<td>5.3 (5.3 units maximum for both English exams)</td>
<td>A2 (3 units)</td>
<td>1A (3 units)</td>
<td></td>
<td></td>
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<tr>
<td>Advanced Placement Exam</td>
<td>Score</td>
<td>SBCC Semester Associate Degree Units Awarded</td>
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<td>UC Transferable Semester Units Awarded</td>
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<td>IGETC Credit Area/s and Semester Units for IGETC</td>
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<tr>
<td>English Literature and Composition</td>
<td>3, 4</td>
<td>3.0</td>
<td>D1</td>
<td>ENG 110</td>
<td>6.0</td>
<td>5.3 (5.3 units maximum for both English exams)</td>
<td>A2 &amp; C2 (6 units)</td>
<td>1A or 3B (3 units)</td>
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<tr>
<td>English Literature and Composition</td>
<td>5</td>
<td>6.0</td>
<td>D1 &amp; D2 or C</td>
<td>ENG 110 &amp; 111</td>
<td>6.0</td>
<td>5.3 (5.3 units maximum for both English exams)</td>
<td>A2 &amp; C2 (6 units)</td>
<td>1A or 3B (3 units)</td>
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<tr>
<td>Environmental Science</td>
<td>3, 4, 5</td>
<td>3.0</td>
<td>None</td>
<td>None</td>
<td>4.0</td>
<td>2.7</td>
<td>B1 &amp; B3* (4 units)</td>
<td>5A &amp; 5C (3 units)</td>
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<tr>
<td>European History</td>
<td>3, 4, 5</td>
<td>3.0</td>
<td>B</td>
<td>HIST 104</td>
<td>6.0</td>
<td>5.3</td>
<td>C2 or D6 (3 units)</td>
<td>3B or 4 (3 units)</td>
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<tr>
<td>French Language and Culture</td>
<td>3</td>
<td>5.0</td>
<td>C</td>
<td>FR 102</td>
<td>6.0</td>
<td>5.3</td>
<td>C2 (3 units F09 &amp; after, 6 units prior to F09)</td>
<td>3B &amp; 6A (3 units)</td>
</tr>
<tr>
<td>French Language and Culture</td>
<td>4</td>
<td>5.0</td>
<td>C</td>
<td>FR 103</td>
<td>6.0</td>
<td>5.3</td>
<td>C2 (3 units F09 &amp; after, 6 units prior to F09)</td>
<td>3B &amp; 6A (3 units)</td>
</tr>
<tr>
<td>French Language and Culture</td>
<td>5</td>
<td>5.0</td>
<td>C</td>
<td>FR 104</td>
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<td>5.3</td>
<td>C2 (3 units F09 &amp; after, 6 units prior to F09)</td>
<td>3B &amp; 6A (3 units)</td>
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<tr>
<td>German Language and Culture</td>
<td>3</td>
<td>5.0</td>
<td>C</td>
<td>GER 102</td>
<td>6.0</td>
<td>5.3</td>
<td>C2 (3 units F09 &amp; after, 6 units prior to F09)</td>
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<td>4</td>
<td>5.0</td>
<td>C</td>
<td>GER 103</td>
<td>6.0</td>
<td>5.3</td>
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<td>3B &amp; 6A (3 units)</td>
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<tr>
<td>German Language and Culture</td>
<td>5</td>
<td>5.0</td>
<td>C</td>
<td>GER 104</td>
<td>6.0</td>
<td>5.3</td>
<td>C2 (3 units F09 &amp; after, 6 units prior to F09)</td>
<td>3B &amp; 6A (3 units)</td>
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<tr>
<td>Government and Politics: Comparative</td>
<td>3, 4, 5</td>
<td>3.0</td>
<td>B</td>
<td>POLS 121</td>
<td>3.0</td>
<td>2.7</td>
<td>D8 (3 units)</td>
<td>4 (3 units)</td>
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<tr>
<td>Government and Politics: United States</td>
<td>3, 4, 5</td>
<td>3.0</td>
<td>B &amp; E2</td>
<td>POLS 101</td>
<td>3.0</td>
<td>2.7</td>
<td>D8 (3 units) &amp; CSU AIR • (US-2)</td>
<td>4 (3 units) &amp; AIR • (US-2)</td>
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<tr>
<td>Human Geography</td>
<td>3, 4, 5</td>
<td>3.0</td>
<td>B</td>
<td>GEOG 102</td>
<td>3.0</td>
<td>2.7</td>
<td>D5 (3 units)</td>
<td>4 (3 units)</td>
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<tr>
<td>Italian Language and Culture</td>
<td>5</td>
<td>5.0</td>
<td>C</td>
<td>ITAL 102</td>
<td>6.0</td>
<td>5.3</td>
<td>C2 (3 units)</td>
<td>3B &amp; 6A (3 units)</td>
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<tr>
<td>Italian Language and Culture</td>
<td>4</td>
<td>5.0</td>
<td>C</td>
<td>ITAL 103</td>
<td>6.0</td>
<td>5.3</td>
<td>C2 (3 units)</td>
<td>3B &amp; 6A (3 units)</td>
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<tr>
<td>Italian Language and Culture</td>
<td>5</td>
<td>5.0</td>
<td>C</td>
<td>ITAL 104</td>
<td>6.0</td>
<td>5.3</td>
<td>C2 (3 units)</td>
<td>3B &amp; 6A (3 units)</td>
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<tr>
<td>Japanese Language and Culture</td>
<td>3</td>
<td>5.0</td>
<td>C</td>
<td>JAPN 102</td>
<td>6.0</td>
<td>5.3</td>
<td>C2 (3 units)</td>
<td>3B &amp; 6A (3 units)</td>
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<td>IGETC Credit Area/s and Semester Units for IGETC</td>
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<tr>
<td>-----------------------------------------</td>
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<td>----------------------------------------------------------------</td>
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</tr>
<tr>
<td>Japanese Language and Culture 4</td>
<td>6.0</td>
<td>5.3 C JAPN 103</td>
<td></td>
<td></td>
<td>C2 (3 units)</td>
<td></td>
<td>3B &amp; 6A (3 units)</td>
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</tr>
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<td>5.3 C JAPN 104</td>
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<td></td>
<td>3B &amp; 6A (3 units)</td>
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<td>Latin 3,4,5</td>
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<td>C2 (3 units #)</td>
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<td>3B &amp; 6A (3 units #)</td>
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<tr>
<td>Macroeconomics 3,4,5</td>
<td>3.0</td>
<td>2.7 D2 (3 units)</td>
<td></td>
<td></td>
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<td>4 (3 units)</td>
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<tr>
<td>Microeconomics 3,4,5</td>
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<td></td>
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<td>4 (3 units)</td>
<td></td>
</tr>
<tr>
<td>Music Theory 3</td>
<td>3.0</td>
<td>6.0</td>
<td></td>
<td></td>
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<tr>
<td>Music Theory 4</td>
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<td></td>
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<tr>
<td>Physics 1 3,4,5</td>
<td>TBD</td>
<td>4.0</td>
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<td></td>
<td></td>
<td></td>
<td>5A &amp; 5C (4 units)</td>
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<tr>
<td>Physics 2 3,4,5</td>
<td>TBD</td>
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<td></td>
<td></td>
<td></td>
<td>5A &amp; 5C (4 units)</td>
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<tr>
<td>Physics C: Electricity and Magnetism 3,4,5</td>
<td>4.0 - 5.0</td>
<td>A PHYS 106 or 111</td>
<td></td>
<td></td>
<td></td>
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<td>5A &amp; 5C (3 units)</td>
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</tr>
<tr>
<td>Physics C: Mechanics 3,4,5</td>
<td>4.0 - 5.0</td>
<td>A PHYS 105 or 111</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5A &amp; 5C (3 units)</td>
<td></td>
</tr>
<tr>
<td>Psychology 3,4,5</td>
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<td>2.7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4 (3 units)</td>
<td></td>
</tr>
<tr>
<td>Seminar 3,4,5</td>
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<td></td>
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<td>5.3</td>
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<td></td>
<td></td>
<td></td>
<td>3B &amp; 6A (3 units)</td>
<td></td>
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<tr>
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<td>6.0</td>
<td>5.3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3B &amp; 6A (3 units)</td>
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<tr>
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<td>5.3</td>
<td></td>
<td></td>
<td></td>
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<td>3B &amp; 6A (3 units)</td>
<td></td>
</tr>
<tr>
<td>Spanish Language and Culture 3</td>
<td>6.0</td>
<td>5.3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3B &amp; 6A (3 units)</td>
<td></td>
</tr>
<tr>
<td>Advanced Placement Exam</td>
<td>Score</td>
<td>SBCC GE Credit Area/s</td>
<td>SBCC Semester Associate Degree Units Awarded</td>
<td>Course Equivalent for SBCC's Associate Degree or Certificate</td>
<td>Minimum CSU Transferable Semester Units Awarded</td>
<td>UC Transferable Semester Units Awarded</td>
<td>CSU GE Credit Area/s and Semester Units for CSU GE</td>
<td>IGETC Credit Area/s and Semester Units for IGETC</td>
</tr>
<tr>
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<td>-------------------------------------------------------------</td>
<td>-----------------------------------------------</td>
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<td>------------------------------------------------</td>
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<tr>
<td>Spanish Language and Culture</td>
<td>4</td>
<td>5.0</td>
<td>C</td>
<td>SPAN 103</td>
<td>6.0</td>
<td>5.3</td>
<td>C2  (3 units S13 &amp; after, 6 units prior to S13)</td>
<td>3B &amp; 6A  (3 units)</td>
</tr>
<tr>
<td>Spanish Language and Culture</td>
<td>5</td>
<td>5.0</td>
<td>C</td>
<td>SPAN 104</td>
<td>6.0</td>
<td>5.3</td>
<td>C2  (3 units S13 &amp; after, 6 units prior to S13)</td>
<td>3B &amp; 6A  (3 units)</td>
</tr>
<tr>
<td>Statistics</td>
<td>3,4,5</td>
<td>4.0</td>
<td>D2 &amp; E1</td>
<td>MATH 117</td>
<td>3.0</td>
<td>2.7</td>
<td>B4  (3 units)</td>
<td>2A  (3 units)</td>
</tr>
<tr>
<td>Studio Art: Drawing</td>
<td>3,4,5</td>
<td>3.0</td>
<td>None</td>
<td>ART 120 or 121</td>
<td>3.0</td>
<td>5.3 (5.3 units maximum for all 3 Art Studio exams)</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Studio Art: 2-D Design</td>
<td>3,4,5</td>
<td>3.0</td>
<td>None</td>
<td>ART 120 or 140</td>
<td>3.0</td>
<td>5.3 (5.3 units maximum for all 3 Art Studio exams)</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Studio Art: 3-D Design</td>
<td>3,4,5</td>
<td>3.0</td>
<td>None</td>
<td>ART 120 or 140</td>
<td>3.0</td>
<td>5.3 (5.3 units maximum for all 3 Art Studio exams)</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>United States History</td>
<td>3,4,5</td>
<td>3.0</td>
<td>B &amp; E2</td>
<td>HIST 101 or 102</td>
<td>6.0</td>
<td>5.3</td>
<td>C2 or D6 (3 units) &amp; AIR • (US-1)</td>
<td>3B or 4 (3 units) &amp; AIR • (US-1)</td>
</tr>
<tr>
<td>World History</td>
<td>3,4,5</td>
<td>3.0</td>
<td>B</td>
<td>HIST 107 or 108</td>
<td>6.0</td>
<td>5.3</td>
<td>C2 or D6 (3 units)</td>
<td>3B or 4 (3 units)</td>
</tr>
</tbody>
</table>

§ Students who take the Calculus BC examination and earn a sub-score of 3 or higher on the Calculus AB portion will receive credit for the Calculus AB examination, even if they do not receive a score of 3 or higher on the BC examination.

* IMPORTANT NOTES ABOUT AP ENVIRONMENTAL SCIENCE FOR CSU GE BREADTH: Students who pass AP Environmental Science earn 4 units of credit. Tests prior to Fall 2009 may apply to either B1+B3 or B2+B3 of GE Breadth. Fall of 2009 or later, those credits may only apply to B1+B3.

# Students seeking certification for the Latin: Literature test must have passed the test before Fall 2009. Credit for the Latin: Literature test is awarded as follows: CSU GEB Area C2 (3 units) and 6 units of CSU elective credit or IGETC Areas 3B and 6A (3 units) and 2.7 units of UC elective credit. Students seeking certification for the Latin: Vergil test must have passed the test before Fall 2012. Credit for the Latin: Vergil test is awarded as follows: CSU GEB Area C2 (3 units) and 3 units of CSU elective credit or IGETC Areas 3B and 6A (3 units) and 2.7 units of UC elective credit;

♦ IMPORTANT NOTES ABOUT AP SCIENCES FROM IGETC STANDARDS: AP exams in Biology, Chemistry or Physics 1 and 2 (which replaced Physics B) allow CCC campuses to apply 4 semester or 5 quarter units to IGETC certification. For Environmental Science, Physics C: Mechanics and Physics C: Electricity/Magnetism, 3 semester or 4 quarter units are applied for IGETC certification; therefore, students who complete these exams will be required to complete at least 4 semester or 5 quarter units to satisfy the minimum required units for Area 5.

♦ IMPORTANT NOTES ABOUT AMERICAN IDEALS (AIR) GRADUATION REQUIREMENT:
1. At the discretion of the CSU Campus granting the degree, courses meeting this requirement may also be counted toward certification in General Education (GE Breadth or IGETC).
2. CSU U.S. History, Constitution, and American Ideals Courses (AIR requirement) – Students satisfy this CSU graduation requirement through coursework in three areas:
   - **US-1:** Historical development of American institutions and ideals — may be completed with a score of 3 or higher on Advanced Placement U.S. History
   - **US-2:** U.S. Constitution and government - may be completed with a score of 3 or higher on Advanced Placement U.S. Government and Politics
   - **US-3:** California state and local government – cannot be satisfied with an Advanced Placement score. Students must complete an approved course at a California community college or complete this requirement at the CSU campus after transfer.

OTHER NOTES:
1. Music Theory sub-score: The UC system grants credit for the full Music Theory exam. Students who earn only a sub-score will not receive exam credit.
2. Duplication of AP and college courses taken before or after attending UC may duplicate IB or AP examinations. If the student does duplicate an exam with a college course or vice versa, UC will award credit for only one.
International Baccalaureate Examination Program

Santa Barbara City College may grant credit toward the Associate Degree by petition for some high-level International Baccalaureate examinations, where a grade of a 5, 6, or 7 has been earned. Students wishing to receive credit for international baccalaureate examinations should contact the college’s Articulation Officer for petition procedures.

A score of 5, 6 or 7 on Higher Level exams is required to grant credit for IGETC and CSU GE Breadth certification (exception: a score of 4 the following IB subjects is considered a passing score for CSU GE Breadth certification: Language A1 HL, Language A2 HL, Language A Literature HL, Language A Language and Literature HL, Language B HL, Mathematics HL and Theatre HL). An acceptable IB score for IGETC or CSU GE Breadth equates to either 3 semester or 4 quarter units for certification purposes. Students who have earned credit from an IB exam should not take a comparable college course because transfer credit will not be granted for both.

<table>
<thead>
<tr>
<th>IB Subject</th>
<th>CSU Elective Units~</th>
<th>UC Elective Units+</th>
<th>IGETC Area</th>
<th>CSU GE Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anthropology HL</td>
<td>TBD</td>
<td>5.3</td>
<td>TBD</td>
<td>TBD</td>
</tr>
<tr>
<td>Biology HL</td>
<td>6.0</td>
<td>5.3</td>
<td>5B (without lab)</td>
<td>B2</td>
</tr>
<tr>
<td>Business and Management HL</td>
<td>TBD</td>
<td>5.3</td>
<td>TBD</td>
<td>TBD</td>
</tr>
<tr>
<td>Chemistry HL</td>
<td>6.0</td>
<td>5.3</td>
<td>5A (without lab)</td>
<td>B1</td>
</tr>
<tr>
<td>Computer Science HL</td>
<td>TBD</td>
<td>5.3</td>
<td>TBD</td>
<td>TBD</td>
</tr>
<tr>
<td>Dance HL</td>
<td>TBD</td>
<td>5.3</td>
<td>TBD</td>
<td>TBD</td>
</tr>
<tr>
<td>Economics HL</td>
<td>6.0</td>
<td>5.3</td>
<td>4</td>
<td>D</td>
</tr>
<tr>
<td>Film HL</td>
<td>TBD</td>
<td>5.3</td>
<td>TBD</td>
<td>TBD</td>
</tr>
<tr>
<td>Geography HL</td>
<td>6.0</td>
<td>5.3</td>
<td>4</td>
<td>D</td>
</tr>
<tr>
<td>History (any region) HL</td>
<td>TBD</td>
<td>5.3</td>
<td>3B or 4</td>
<td>C2 or D</td>
</tr>
<tr>
<td>Language A Language and Literature (any region) HL</td>
<td>6.0‡</td>
<td>5.3</td>
<td>3B</td>
<td>C2</td>
</tr>
<tr>
<td>Language A Language and Literature (any language, except English) HL</td>
<td>6.0‡</td>
<td>5.3</td>
<td>3B and 6A</td>
<td>C2</td>
</tr>
<tr>
<td>Language A Literature (any region) HL</td>
<td>6.0‡</td>
<td>5.3</td>
<td>3B</td>
<td>C2</td>
</tr>
<tr>
<td>Language A Literature (any language, except English) HL</td>
<td>6.0‡</td>
<td>5.3</td>
<td>3B and 6A</td>
<td>C2</td>
</tr>
<tr>
<td>Language B (any region) HL</td>
<td>6.0‡</td>
<td>5.3</td>
<td>6A</td>
<td>N/A</td>
</tr>
<tr>
<td>Mathematics HL</td>
<td>6.0‡</td>
<td>5.3</td>
<td>2A</td>
<td>B4</td>
</tr>
<tr>
<td>Mathematics, Further HL</td>
<td>TBD</td>
<td>5.3</td>
<td>TBD</td>
<td>TBD</td>
</tr>
<tr>
<td>Music HL</td>
<td>TBD</td>
<td>5.3</td>
<td>TBD</td>
<td>TBD</td>
</tr>
<tr>
<td>Philosophy HL</td>
<td>TBD</td>
<td>5.3</td>
<td>TBD</td>
<td>TBD</td>
</tr>
<tr>
<td>Physics HL</td>
<td>6.0</td>
<td>5.3</td>
<td>5A (without lab)</td>
<td>B1</td>
</tr>
<tr>
<td>Psychology HL</td>
<td>3.0</td>
<td>5.3</td>
<td>4</td>
<td>D</td>
</tr>
<tr>
<td>Theatre HL</td>
<td>6.0‡</td>
<td>5.3</td>
<td>3A</td>
<td>C1</td>
</tr>
<tr>
<td>Visual Arts HL</td>
<td>TBD</td>
<td>5.3</td>
<td>TBD</td>
<td>TBD</td>
</tr>
<tr>
<td>World History HL</td>
<td>TBD</td>
<td>5.3</td>
<td>TBD</td>
<td>TBD</td>
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</tbody>
</table>

~ The CSU policy for IB can be found [www.calstate.edu/AcadAff/codedMemos/AA-2015-01.pdf](http://www.calstate.edu/AcadAff/codedMemos/AA-2015-01.pdf). Each campus in the California State University system determines how it will apply external examinations toward credit in the major. Contact the individual campus for more information.

+ The International Baccalaureate Organization (IBO) awards either a diploma or a certificate for individual IB exams. Students completing the International Baccalaureate diploma with a score of 30 or above will receive 30 quarter (20 semester) units toward their UC degree. The University of California also grants 8 quarter (5.3 semester) units for students who receive IB certificates with scores of 5, 6 or 7 on Higher Level exams. For more information about course credit awarded by the campuses, [http://admission.universityofcalifornia.edu/counselors/exam-credit/ib-credits/index.html](http://admission.universityofcalifornia.edu/counselors/exam-credit/ib-credits/index.html)

‡ A score of 4 on these IB subjects is considered a passing score by the CSU system to earn CSU elective units and CSU GE Breadth credit.
## College-Level Examination Program (CLEP)

The following CLEP examinations can be used for credit toward the 60 CSU-transferable units required for transfer admission and toward CSU GE Breadth certification as shown in the following chart:

<table>
<thead>
<tr>
<th>IB Subject</th>
<th>Score</th>
<th>CSU Elective Units</th>
<th>Units for CSU GE</th>
<th>CSU GE Area</th>
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<tbody>
<tr>
<td>American Government</td>
<td>50</td>
<td>3.0</td>
<td>3.0</td>
<td>D</td>
</tr>
<tr>
<td>American Literature</td>
<td>50</td>
<td>3.0</td>
<td>3.0</td>
<td>C2</td>
</tr>
<tr>
<td>Analyzing and Interpreting Literature</td>
<td>50</td>
<td>3.0</td>
<td>3.0</td>
<td>C2</td>
</tr>
<tr>
<td>Biology</td>
<td>50</td>
<td>3.0</td>
<td>3.0</td>
<td>B2</td>
</tr>
<tr>
<td>Calculus</td>
<td>50</td>
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<td>3.0</td>
<td>B4</td>
</tr>
<tr>
<td>Chemistry</td>
<td>50</td>
<td>3.0</td>
<td>3.0</td>
<td>B1</td>
</tr>
<tr>
<td>College Algebra</td>
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<td>3.0</td>
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<tr>
<td>College Algebra - Trigonometry</td>
<td>50</td>
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<td>3.0</td>
<td>B4</td>
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<tr>
<td>College Composition</td>
<td>50</td>
<td>0.0</td>
<td>0.0</td>
<td>N/A</td>
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<tr>
<td>College Composition - Modular</td>
<td>50</td>
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<td>College Mathematics</td>
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<td>0.0</td>
<td>N/A</td>
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<tr>
<td>English Composition (no essay)</td>
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<td>0.0</td>
<td>N/A</td>
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<tr>
<td>English Composition (w/ essay)</td>
<td>50</td>
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<td>0.0</td>
<td>N/A</td>
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<td>Financial Accounting</td>
<td>50</td>
<td>3.0</td>
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<td>N/A</td>
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<td>French, Level I^</td>
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<td>N/A</td>
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<tr>
<td>French, Level II^</td>
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<td>3.0</td>
<td>C2</td>
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<tr>
<td>Freshman College Composition</td>
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<tr>
<td>German, Level I^</td>
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<tr>
<td>German, Level II^</td>
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<td>C2</td>
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<td>Passing Score</td>
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<td>GE Breadth</td>
<td>GE Area</td>
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<td>---------------------------------------------</td>
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<tr>
<td>History, United States I</td>
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<td>3.0</td>
<td>3.0</td>
<td>D &amp; US-1</td>
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<tr>
<td>History, United States II</td>
<td>50</td>
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<td>3.0</td>
<td>D &amp; US-1</td>
</tr>
<tr>
<td>Human Growth &amp; Development</td>
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<td>E</td>
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<tr>
<td>Humanities</td>
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<td>3.0</td>
<td>C2</td>
</tr>
<tr>
<td>Info Sys &amp; Comp Applications</td>
<td>50</td>
<td>3.0</td>
<td>0.0</td>
<td>N/A</td>
</tr>
<tr>
<td>Intro to Educational Psychology</td>
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<td>3.0</td>
<td>0.0</td>
<td>N/A</td>
</tr>
<tr>
<td>Introductory Business Law</td>
<td>50</td>
<td>3.0</td>
<td>0.0</td>
<td>N/A</td>
</tr>
<tr>
<td>Introductory Psychology</td>
<td>50</td>
<td>3.0</td>
<td>3.0</td>
<td>D</td>
</tr>
<tr>
<td>Introductory Sociology</td>
<td>50</td>
<td>3.0</td>
<td>3.0</td>
<td>D</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>50</td>
<td>3.0</td>
<td>3.0</td>
<td>B1 or B2</td>
</tr>
<tr>
<td>Pre-Calculus</td>
<td>50</td>
<td>3.0</td>
<td>3.0</td>
<td>B4</td>
</tr>
<tr>
<td>Principles of Accounting</td>
<td>50</td>
<td>3.0</td>
<td>0.0</td>
<td>N/A</td>
</tr>
<tr>
<td>Principles of Macroeconomics</td>
<td>50</td>
<td>3.0</td>
<td>3.0</td>
<td>D</td>
</tr>
<tr>
<td>Principles of Management</td>
<td>50</td>
<td>3.0</td>
<td>0.0</td>
<td>N/A</td>
</tr>
<tr>
<td>Principles of Marketing</td>
<td>50</td>
<td>3.0</td>
<td>0.0</td>
<td>N/A</td>
</tr>
<tr>
<td>Principles of Microeconomics</td>
<td>50</td>
<td>3.0</td>
<td>3.0</td>
<td>D</td>
</tr>
<tr>
<td>Social Sciences and History</td>
<td>50</td>
<td>0.0</td>
<td>0.0</td>
<td>N/A</td>
</tr>
<tr>
<td>Spanish, Level I</td>
<td>50</td>
<td>6.0</td>
<td>0.0</td>
<td>N/A</td>
</tr>
<tr>
<td>Spanish, Level II</td>
<td>63</td>
<td>9.0</td>
<td>3.0</td>
<td>C2</td>
</tr>
<tr>
<td>Western Civilization I</td>
<td>50</td>
<td>3.0</td>
<td>3.0</td>
<td>C2 or D6</td>
</tr>
<tr>
<td>Western Civilization II</td>
<td>50</td>
<td>3.0</td>
<td>3.0</td>
<td>D6</td>
</tr>
</tbody>
</table>

^ If a student passes more than one CLEP test in the same language other than English (e.g., two exams in French), then only one examination may be applied to the baccalaureate. For each test in a language other than English, a passing score of 50 is considered “Level I” and earns six units of baccalaureate credit; the higher score listed for each test is considered “Level II” and earns additional units of credit and placement in Area C2 of GE Breadth, as noted.

The CSU policy for CLEP can be found at https://www.calstate.edu/AcadAff/codedMemos/AA-2015-19.pdf. Each campus in the California State University system determines how it will apply external examinations toward credit in the major. Contact the individual campus for more information.
Attendance
All students enrolled at Santa Barbara City College are expected to be punctual and to attend class regularly. Students who are not in attendance at the first class meeting are considered “no-shows” and the instructor may drop such persons in order to give their seats to non-registered students seeking to enroll. Also, an instructor may withdraw a student from semester-length courses at any time for excessive absence through the 9th week of the Fall/Spring semesters, and the 60% point of the class for Summer and courses less than a semester in length. As a guideline, absence is considered excessive if a student misses three (3) meetings, or the equivalent of one week of class attendance or according to absence guidelines as published in the course syllabus.

Absence due to a verified illness may be accepted as an excused absence for a limited period of time. Students are expected to notify their instructor by e-mail and/or phone message if they are absent for a medical reason. Students are expected to make appointments for medical and dental treatments at times other than when classes are scheduled. Students anticipating or encountering extended absences due to medical, personal or family emergencies should contact the Dean, Educational Programs—Student Support Services, Room SS-260, ext. 2278.

It is the student’s responsibility to officially withdraw from classes. Students failing to drop officially may receive an “F”, “FW” or “NP” grade.

Audits
Audit enrollment for a class is allowed upon the discretion of the instructor and adherence to Admissions & Records submission procedures and deadlines. Priority in class enrollment shall be given to students desiring to take the course for credit. Courses designated in the Catalog as repeatable may not be audited. No credit will be received for auditing, and the District does not maintain any attendance, transcript, or academic record for auditing.

Classification of Students
Full-time Student: Carries 12 or more units
(4 units in Summer)
Three Quarter-Time: Carries 9 or less than 12 units
(3 or less than 4 units in Summer)
Half-time Student: Carries at least six units
Freshman Student: Has earned fewer than 30 units of college credit
Sophomore Student: Has earned 30 or more units of college credit, but does not hold a degree

Course Enrollment Limits

In general, a student who receives a satisfactory grade (A+, A, A-, B+, B, B-, C+, C, P, CR) in a non-repeatable credit course is permitted to enroll in that course only one time.

If a student receives a substandard grade (D+, D, D-, F, FW, NP, NC) and/or withdraws (W) from the course, the student is allowed to enroll in the course two more times for a maximum of three enrollments.

Course Load Limitations
A full-time course load for the community college student is a minimum of twelve (12) units per semester. The maximum is eighteen (18) units per semester. With 12 units per semester, it will take a minimum of five (5) semesters to complete a typical Associate Degree program, plus additional time to complete basic skills courses. However, students with a cumulative 3.0 grade point average (GPA) with 12 or more units (excluding ESL) completed at SBCC may request to enroll in up to 20 (twenty) units with Admissions & Records approval. Permission to register in excess of twenty (20) units requires counselor authorization. Students who do not have a cumulative 3.0 grade point average (G.P.A) at SBCC and/or who have academic records from another college or high school may take an excess of eighteen (18) units with counselor authorization. A student who is working or who has a health problem should make a proportionate course load adjustment.
During Summer Session, a full-time load is four (4) units. Students may enroll in a maximum of eight (8) units for the six-week session. Students with a cumulative 3.0 grade point average (GPA) at SBCC may request to enroll in up to nine (9) units with Admissions & Records approval. Ability to enroll in excess of nine (9) units requires counselor authorization. Students who do not have a cumulative 3.0 grade point average (GPA) at SBCC and/or who have academic records from another college or high school may take an excess of eight (8) units with counselor authorization.

A major consideration for students, particularly first-time students and those returning to college after a lengthy absence is determination of an appropriate course load for their first semester. While the number of courses one can handle during a semester varies among individuals, experience indicates that, for most students, typical SBCC lecture courses require two hours of outside preparation for each hour in class. Thus, a 12-unit course load, for example, represents a commitment of 36 hours per week—comprised of 12 hours in class and 24 hours of outside preparation.

Students who plan to work while attending Santa Barbara City College need to establish a realistic course load that takes into account the demands of both work and school. If you work full-time, you are advised, during your first semester, to limit your enrollment to six or seven units—or two classes. If you work 20 hours per week, as most students do, you are advised to limit your course load to 12 to 14 units. Through careful planning of workload, you can maximize your potential for performing successfully in your classes.

Dual Enrollment student course load limitation information is available, www.sbcc.edu/dualenrollment.

### Special Program Unit Limitations

A minimum number of units must be taken for the following programs:

<table>
<thead>
<tr>
<th>Program</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Associated Student Government/Student Senate</td>
<td>5</td>
</tr>
<tr>
<td>Clubs</td>
<td>1</td>
</tr>
<tr>
<td>Varsity Athletes (Repeats do not count)</td>
<td>12</td>
</tr>
<tr>
<td>Social Security Benefits</td>
<td>12</td>
</tr>
<tr>
<td>Federal Work-Study Program</td>
<td>5</td>
</tr>
<tr>
<td>Federal Student Loans</td>
<td>6</td>
</tr>
</tbody>
</table>

Veterans Benefits and Financial Aid:
- Full-Time ........................................ 12 or more
- Three-Fourths Time .............................. 9 to 11-1/2
- Half-Time ........................................ 6 to 8-1/2
- EOPS .............................................. 12 or more
- Less than Half-Time ............................ Less than 6

### Course Enrollment, Repetition and Withdrawal Limits

The following are in accordance with California Code of Regulations, Title 5, 55024, 55040, 55042 and 58161.

### Course Repetition to Alleviate a Substandard Grade

Students may not enroll in a course more than three times, except in limited circumstances. Enrollments include any combination of withdrawal(s) and grade(s). Course Repeat requests beyond three enrollments may be petitioned by the student if the below circumstances exist including, but not limited to:

- Significant lapse of time
- Active participatory courses
- Course repetition to alleviate substandard academic work
- Course repetition due to extenuating circumstances
- Disabled Student Programs and Services (DSPS) subject-coded courses
- Course repetition of cooperative work experience
- Course repetition due to employment, training, or other legal requirements

The student must submit a Petition for Course Repetition for review by the Scholastic Standards Committee. In order to be eligible for consideration of this exception, a student must clearly demonstrate the extenuating circumstances that prevented him/her from successfully completing the course in the three prior enrollments. Extenuating circumstances are verified cases of accidents, illnesses or other circumstances beyond the control of the student. Official documentation of extenuating circumstances is required. The Petition for Course Repetition is available at www.sbcc.edu/forms as are semester deadlines for petition submission.

### Course Repetition with a Prior Satisfactory Grade

Students may be permitted or required to repeat courses in which a satisfactory grade (“A+,” “A,” “A-,” “B+,” “B,” “B-,” “C+,” “C,” “P,” or “CR”) was earned where there was a significant lapse of time (defined as no less than 36 months) since the grade was obtained and:

- Has established a recency prerequisite for a course or program
- Another institution of higher education to which the student seeks to transfer has established a recency requirement that the student will not be
able to satisfy without repeating the requested course (official supporting documentation from the other institution is required.)

The Petition for Course Repetition with a “C” or Better is available at www.sbcc.edu/forms as are semester deadlines for petition submission.

Courses Specifically Designated as Repeatable
Repeatable Courses (California Code of Regulations, Title 5, 55040, 55041) The following courses have a restriction on the total number of times that they may be taken. Students will not be allowed to register in these courses more than the total number of times indicated.

Administration of Justice
Three (3) Repetitions: AJ 290 (up to 16 units maximum)

Addictive Disorders Counseling
Three (3) Repetitions: ADC 290 (up to 16 units maximum)

Anthropology
Three (3) Repetitions: ANTH 295, 299

Art
Three (3) Repetitions: ART 299

Automotive Service and Technology
Three (3) Repetitions: AUTO 290 (up to 16 units maximum)

Biological Sciences
Three (3) Repetitions: BIOL 295 (up to 16 units), 299

Business Administration
Three (3) Repetitions: BUS 290 (up to 16 units maximum), 299

Communication
Three (3) Repetitions: COMM 295, 299

Computer Applications and Office Management
Three (3) Repetitions: COMP 290 (up to 16 units maximum), 299

Computer Information Systems
Three (3) Repetitions: CIS 290 (up to 16 units maximum)

Computer Network Engineering
Three (3) Repetitions: CNEE 295 (up to 16 units)

Construction Technology
Three (3) Repetitions: CT 290 (up to 16 units maximum)

Culinary Arts
Three (3) Repetitions: CA 290 (up to 16 units maximum)

Diagnostic Medical Sonography
Three (3) Repetitions: DMS 290 (up to 16 units maximum)

Disabled Student Programs and Services
Three (3) Repetitions: DSPS 77

Drafting/CAD
Three (3) Repetitions: DRFT 290 (up to 16 units maximum), 299

DSPS
Four (4) Repetitions: DSPS 66, 77

Early Childhood Education
Three (3) Repetitions: ECE 290 (up to 16 units maximum)

Earth Science
Three (3) Repetitions: ERTH 299

Economics
Three (3) Repetitions: ECON 295, 299

Education
Three (3) Repetitions: ED 295

Emergency Medical Technician
Three (3) Repetitions: EMT 111 (or unlimited repetitions for legally mandated programs)

English
Three (3) Repetitions: ENG 295, 299

English as a Second Language
Three (3) Repetitions: ESL 290 (up to 16 units maximum)

Environmental Horticulture
Three (3) Repetitions: EH 290 (up to 16 units maximum), 299

Environmental Studies
Three (3) Repetitions: ENVS 295 (up to 16 units)

Ethnic Studies
Three (3) Repetitions: ETHS 295, 299

Film Studies
Three (3) Repetitions: FS 295 (up to 16 units), 299

Finance
Three (3) Repetitions: FIN 290 (up to 16 units maximum)
<table>
<thead>
<tr>
<th>Subject</th>
<th>Repetitions</th>
</tr>
</thead>
<tbody>
<tr>
<td>French</td>
<td>Three (3) Repetitions: FR 299</td>
</tr>
<tr>
<td>Geography</td>
<td>Three (3) Repetitions: GEOG 299</td>
</tr>
<tr>
<td>German</td>
<td>Three (3) Repetitions: GER 299</td>
</tr>
<tr>
<td>Gerontology</td>
<td>Three (3) Repetitions: GER 290 (up to 16 units maximum)</td>
</tr>
<tr>
<td>Global Studies</td>
<td>Three (3) Repetitions: GLST 299</td>
</tr>
<tr>
<td>Graphic Design and Photography</td>
<td>Three (3) Repetitions: GDP 290 (up to 16 units maximum)</td>
</tr>
<tr>
<td>Health Education</td>
<td>Three (3) Repetitions: HE 290</td>
</tr>
<tr>
<td>History</td>
<td>Three (3) Repetitions: HIST 295, 299</td>
</tr>
<tr>
<td>Hotel Management</td>
<td>Three (3) Repetitions: HM 290 (up to 16 units maximum), 295</td>
</tr>
<tr>
<td>Interior Design</td>
<td>Three (3) Repetitions: ID 290 (up to 16 units maximum)</td>
</tr>
<tr>
<td>Italian</td>
<td>Three (3) Repetitions: ITAL 299</td>
</tr>
<tr>
<td>Journalism</td>
<td>Three (3) Repetitions: JOUR 290 (up to 16 units maximum), 295</td>
</tr>
<tr>
<td>Marine Diving Technologies</td>
<td>Three (3) Repetitions: MDT 290 (up to 16 units maximum), 299</td>
</tr>
<tr>
<td>Mathematics</td>
<td>Three (3) Repetitions: MATH 295</td>
</tr>
<tr>
<td>Multimedia Arts and Technologies</td>
<td>Three (3) Repetitions: MAT 290 (up to 16 units maximum)</td>
</tr>
<tr>
<td>Music</td>
<td>Three (3) Repetitions: MUS 299</td>
</tr>
<tr>
<td>Nursing</td>
<td>Three (3) Repetitions: NURS 290 (up to 16 units maximum), 295, 299</td>
</tr>
<tr>
<td>Philosophy</td>
<td>Three (3) Repetitions: PHIL 295, 299</td>
</tr>
<tr>
<td>Political Science</td>
<td>Three (3) Repetitions: POLS 295 (up to 16 units), 299 (up to 3 units)</td>
</tr>
<tr>
<td>Professional Development Studies</td>
<td>PRO 292: A maximum of three credit hours per semester may be earned, up to a total of six semester units in combination with General Work Experience courses.</td>
</tr>
<tr>
<td>Psychology</td>
<td>Three (3) Repetitions: PSY 295 (up to 16 units), 299</td>
</tr>
<tr>
<td>Radiographic and Imaging Sciences</td>
<td>Three (3) Repetitions: RT 295, 299</td>
</tr>
<tr>
<td>Real Estate</td>
<td>Three (3) Repetitions: RE 290 (up to 16 units maximum)</td>
</tr>
<tr>
<td>Sociology</td>
<td>Three (3) Repetitions: SOC 295 (up to 16 units), 299</td>
</tr>
<tr>
<td>Spanish</td>
<td>Three (3) Repetitions: SPAN 290 (up to 16 units maximum), 299</td>
</tr>
<tr>
<td>Theatre Arts</td>
<td>Three (3) Repetitions: TA 299</td>
</tr>
<tr>
<td>Work Experience (General)</td>
<td>A maximum of three credit hours per semester may be earned, up to a total of six semester units in combination with PRO 292.</td>
</tr>
<tr>
<td>Work Experience (Occupational)</td>
<td>A maximum of four credit hours per semester may be earned, up to a total of 16 semester units. There is no limit on course repetition. The limit is on total units in combination with PRO 292.</td>
</tr>
</tbody>
</table>
Credit by Examination
Credit by examination may be granted to students who are registered and in good standing (2.0 GPA) at SBCC for proficiency in subject matter essentially equivalent to a course for which credit is being requested. Departments shall maintain a list of eligible courses and a process for obtaining credit. Students may petition credit by examination, using the department’s process for obtaining credit, so long as the amount of credit is not greater than the amount listed for the course and the respective department designates the course as suitable for credit by examination. Credit may not be granted for any course for which high school or college credit has been awarded. Credits acquired by examination are not applicable to meeting of such unit load requirements as Selective Service deferment, Veteran’s or Social Security benefits, or financial aid.

The petition for credit by examination may be obtained in Admissions & Records and shall be submitted to the appropriate department chairperson. Although examinations may be written prior to the completion of 15 units, no credit shall be posted on the student’s record until after 15 units have been earned at Santa Barbara City College. A maximum of 12 units may be obtained by examination.

Students must petition for credit by examination by the end of the third week of the semester. The examination must be taken at a time determined by the instructor but shall be reported to Admissions & Records by the department chairperson no later than the last day of instruction in which credit is granted.

The nature and content of the examination shall be determined solely by faculty in the discipline who normally teach the course for which credit is to be granted in accordance with policies and procedures approved by the Curriculum Advisory Committee.

The units and grade received are used in determining the total units attempted, units earned, and grade points for the student. Credits acquired by the examination shall not be counted in determining the 15 semester hours of credit in residence required for an Associate degree. Transfer students wishing credit by examination at four-year institutions may be required to petition such institutions in conformance to their policies. A grade received in a course taken credit by examination may not be used to remove a substandard grade received in the same course.

Field Trip and Excursion Policy
Throughout each semester and Summer Session, the Santa Barbara Community College District may sponsor voluntary off-campus, co-curricular field trips and excursions. If you choose to participate, you should be aware that, pursuant to the California State Code of Regulations, Sub-Chapter 5, Section 55450, you have agreed to hold the District, its officers, agents and employees harmless from any and all liability or claims which may arise out of, or be in connection with, your participation in the activity.

Final Examinations
Final examinations on the entire semester’s work are given at the close of each semester. Students are required to take scheduled final examinations at the appointed times and places in order to secure credit. If a student finds that it is impossible to avoid three finals in one day, and the student cannot obtain an accommodation from his/her instructor(s), the student may submit a written request for an adjustment in his/her final exam schedule to the Executive Vice President, Educational Programs, Room A-113.

Absence from a final due to an illness may be accommodated at the discretion of the instructor. The student should attempt to contact his/her instructor(s) within 24 hours of the scheduled exam. Absence due to illness must be verified by a physician. Students anticipating or encountering absence from finals(s) due to medical, personal or family emergencies, and who are unable to secure an accommodation from their instructor(s), should contact the Dean, Educational Programs—Student Support Services, Room SS-260, (805) 730-4078, to discuss their options.

Requests for changes in the exam schedule due to travel or employment schedules are examples of non-emergency conditions that will not be accommodated.

Final Grades
Final grades will be available online in Pipeline (web transcript), as instructors submit them. Final grades, official transcripts, diplomas and certificates will not be released if there is a hold or outstanding financial obligation on file at the Cashier’s Office.

Grades and Grade Points
The system of grades and grade points at Santa Barbara City College is as follows:

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Definition</th>
<th>Grade Point</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>Excellent</td>
<td>4.0</td>
</tr>
<tr>
<td>A</td>
<td>Excellent</td>
<td>4.0</td>
</tr>
</tbody>
</table>
A- Excellent 3.7  
B+ Good 3.3  
B Good 3.0  
B- Good 2.7  
C+ Satisfactory 2.3  
C Satisfactory 2.0  
D+ Less than satisfactory 1.3  
D Less than satisfactory 1.0  
D- Less than satisfactory 0.7  
F Failing 0.0  
FW Failing (Unauthorized Withdrawal) 0.0  
P — Pass (At least satisfactory—units awarded not counted in GPA)  
Became effective Fall 2008  
NP — No Pass (Less than satisfactory—units not counted in GPA)  
Became effective Fall 2008  
CR — Credit (At least satisfactory—units awarded not counted in GPA)  
Effective prior to Fall 2008  
NC — No credit (Less than satisfactory—units not counted in GPA)  
Effective prior to Fall 2008  
I — Incomplete***  
IP — In Progress***  
RD — Report Delayed***  
W — Withdrawal***  
MW — Military Withdrawal***  

Instructor grades are final. Except in the case of an “I” or clerical error, instructors cannot change a grade once it has been accepted by Admissions & Records. Grades may not be revised by the instructor on the basis of a second trial, new examination, or additional work undertaken or completed after the date of the end-semester report.

**High School Articulation**

Santa Barbara City College has an extensive Dual Enrollment Program, which offers college classes at high school campuses. See the “Dual Enrollment” section of this Catalog for more information. In addition, high school students may earn college credit for the following high school ROP course: Computer Accounting (Accounting 110). Contact the Dual Enrollment Director at (805) 898-8174.

**Incompletes**

An Incomplete (I) non-evaluative symbol may be issued at the end of the term by the instructor for unforeseeable, emergency, and justifiable reasons that preclude a student’s final completion of course requirements. An “I” requires an Incomplete Contract signed by the instructor and student which shall contain the conditions for the removal of the “I” and the grade assigned if the Incomplete Contract conditions are not met within the stipulated timeframe. A copy of this contract must be given to the student and a copy submitted to Admissions & Records by the instructor and will be kept on file until the “I” is made up or the time limit has passed. A final grade will be assigned when the work stipulated has been completed and evaluated, or when the time limit for completing the work has passed.

The “I” shall be made up no later than the end of the following semester (i.e., Summer term—by the end of Fall semester; Fall semester—by the end of Spring semester, and Spring semester—by the end of Fall semester).

The “I” shall not be used in calculating units attempted or grade point. However, units attempted for which “I” is recorded shall be considered in Progress Probation and Disqualification procedures.

The student may petition the Scholastic Standards Committee for a time extension due to extenuating circumstances.

**Independent Study**

SBCC offers independent study courses (numbered 299) that provide opportunities for students to explore a subject in depth beyond what is possible in existing courses. Independent study courses provide opportunities for students to explore a subject in depth beyond what is possible in existing courses. A student may enroll in a maximum of four (4) units per semester of independent study; however, the transfer student should check the policy of the four-year institution of choice regarding the number of units of independent study which may be earned each semester. University of California credit may be awarded only after transfer and at the discretion of the UC campus. Independent study units are NOT included in the 60 units required for transfer to the UC. Consult with an academic counselor.

To be eligible for independent study, a student must have completed a minimum of 12 units at Santa Barbara City College, with a 2.5 GPA, and a minimum of six (6) units, with a 3.0 GPA within the department.

Each student is responsible for acquainting him/herself with department requirements and prerequisites, and for presenting his/her plan for study...
or project to an appropriate instructor. Instructors need not accept students for independent study, as their assignments may preclude additional responsibility.

Students who wish to register in independent study coursework should contact Admissions & Records to obtain the required form. The form must be signed by the instructor of record, the department chairperson, and the academic dean, and assigned a section number by the Scheduling Office. It should be returned to Admissions & Records by the end of the second week of the semester (first week for Summer) for official registration.

Military Experience
A maximum of 24 credits may be granted for military service based on A Guide to the Evaluation of Educational Experiences in the Armed Services, published by the American Council on Education. After enrolling at Santa Barbara City College, an honorably discharged veteran or an active duty service member who has served on active duty a minimum of 180 days may apply for evaluation of military service experience for college credit. At a minimum, credit will be applied towards the PE requirement for the SBCC Associate Degree (Area E-3) based on official discharge documents (DD-214 or DD-295) or official military experience transcripts recognized by the American Council on Education (e.g., AARTS, SMART) and completion of fifteen (15) units at Santa Barbara City College. A copy of the veteran’s DD-214 separation form and/or official military experience transcripts and an SBCC Non-Traditional Credit Petition form must be submitted to the Transcript Evaluations Office. Credit granted for military service is based on A Guide to the Evaluation of Educational Experiences in the Armed Services, published by the American Council on Education.

Official Transcripts to Other Colleges
Upon request of a student, an official transcript of the student’s record at Santa Barbara City College will be sent to any college, university or third party. The first two copies are free; however, a fee is charged for each additional copy. All transcript requests require written consent from the student. Transcript requests are accepted online. However, a student may pay an additional fee and request rush or hand-carry transcripts. Visit www.sbcc.edu/transcripts for information.

Open Enrollment Courses
It is the policy of the Board of Trustees of the Santa Barbara Community College District that, unless specifically exempted by statute or regulation, every course, course section, or class, reported for state aid, wherever offered and maintained by the District, shall be fully open to enrollment and participation by any person who has been admitted to Santa Barbara City College and who meets such prerequisites as may be established pursuant to Section 55003 of Division 6 of Title 5 of the California Code of Regulations.

Pass/No Pass Grading
Students may elect Pass/No Pass grading in any course listed in the Catalog, with a faculty signature (academic counselor, department chairperson, or instructor of record), no later than the fifth week of the semester (Fall/Spring) for full semester length classes or the 30% point for all other classes. After the fifth week, neither the student nor faculty may change the decision. Pass will be granted only when the work is of a quality equivalent to a grade of “C” or better. Students are encouraged to check with an academic counselor about the appropriateness of taking a course Pass/No Pass for transfer to another college or institution. After the fifth week of the semester for Fall/Spring semester or the 30% point for all other classes, neither the student nor faculty may change the grading option decision. Units attempted for which “NP” is recorded shall be considered in progress probation and disqualification procedures.

Repeated Courses
Whenever an eligible course in which a sub-standard grade (D+, D, D-, F, FW, NC or NP) has been received is repeated at SBCC and completed with a grade other than “W,” the original grade remains part of the transcript. The original grade and course units are noted with an “E” for exclude. Units and grade points for the original grade are excluded from the SBCC GPA calculation. Courses in which a student has received a grade of D+, D, D-, F, NC or NP may be repeated twice (not to exceed a maximum of 3 enrollments). Those courses, in which a student has received a “C” grade, or better, may not be repeated. Exceptions to this policy are listed under “Course Repetition Policy” in this Catalog.

Revisions of Catalog Regulations
Requirements for graduation, fees, course offerings and other regulations and policies are subject to change without notice and will be effective for all students as changed.
Transfer of Credits from Foreign Countries
Only credentials issued by recognized institutions may be used for admission or transfer credit in the United States. Transfer credits from foreign countries will be accepted with the recommendations of an approved foreign credential transcripts evaluation and translation service, in consultation and approval by appropriate department faculty and/or by the Transcript Evaluations Office under authority of appropriate department faculty. Specific credit of any subject with content that may vary according to regional influence will be evaluated by the Transcript Evaluation Office to determine content, relevance and SBCC course credit. Quarter system units earned will be converted to semester units (semester units = quarter units / 1.5). Refer to www.sbcc.edu/transcriptevaluationpolicy for additional information.

Transfer of Credits from Other American Colleges
Santa Barbara City College grants lower division credit for most degree-applicable coursework completed at regionally accredited (Associations of Colleges and Schools) institutions of higher learning. Credit earned at a time when an institution was a candidate for accreditation may be accepted for credit. To earn units and/or subject credit from previous coursework, students must submit an official transcript to the SBCC Admissions & Records Office. Official transcripts of all high school and college work are important documents to have on file for proper counseling/advisement and are required for degree certification. Upon request transfer course work will be evaluated by appropriate department faculty and/or by the Transcript Evaluation Office under authority of appropriate department faculty. Subject and unit credit will not be granted for post-baccalaureate level course work. Quarter system units earned will be converted to semester units (semester units = quarter units / 1.5). Refer to www.sbcc.edu/transcriptevaluationpolicy for additional information.

Transfer of Credits to Other Colleges and Universities
Santa Barbara City College is fully accredited by the Accrediting Commission for the Community and Junior Colleges, which is part of the Western Association of Schools and Colleges. All courses equivalent to university and college work are generally accepted by all WASC member colleges and most other colleges and universities in the United States. Specific Information on course and/or program articulation agreements with the University of California and the California State University can be found at www.assist.org and at articulation.sbcc.edu. For Information on articulation agreements with California independent colleges, out of state colleges and international colleges, contact the Santa Barbara City College Transfer Center or Articulation Office.

The college is also approved by the California Department of Education for the training of veterans under the provisions of the G.I. Bill of Rights, and by the U.S. Immigration and Naturalization Service for non-quota immigration students in accordance with provisions of Section 101 (a) (15) of the Immigration and Naturalization Act, as amended. Accreditation materials are available for review in the Luria Library.

Unit of Credit
Credit Courses: One credit hour of community college work (one unit of credit) requires a minimum of 48 hours of lecture, study, or laboratory work per semester (California Code of Regulations 55002.5). For every unit of credit, it is expected that the student will spend at least two hours a week in outside preparation or three hours a week in supervised study or laboratory work.

Withdrawal from Classes
If a student must withdraw from college/classes, he/she may do so online or in person in Admissions & Records by the end of the 9th week of the semester for semester-length classes. Withdrawal dates for Summer classes and courses less than semester-length vary. Information regarding a specific class is available on the student Schedule/Bill, at www.sbcc.edu/classes or from Admissions & Records. Students failing to officially withdraw by the stated deadlines will receive an evaluative grade.

Students needing to withdraw after the withdrawal deadline due to extenuating circumstances (verified cases of accidents, illnesses or other circumstances beyond the control of the student) may submit a Petition for Wavier of College Regulations (www.sbcc.edu/forms) to the Scholastic Standards Committee for review and adjudication. Official supporting documentation is required for consideration.

Withdrawal from Semester-Length Classes
1. A student may initiate a withdrawal from a full semester-length class at any time prior to the end of the 9th week. Students are encouraged to consult with the instructor concerning the withdrawal, but the instructor may not withhold the “W.”
2. An instructor may drop a student for excessive unexcused absences at any time prior to the end of the 9th week of the semester. Absence is considered excessive if a student misses more than the equivalent of one week of classes during the semester, or according to absence guidelines as published in a course syllabus. After the 9th week, the instructor must give an evaluative grade (A+-F), or Pass/No Pass, if appropriate forms are on file with Admissions & Records.

3. A student who remains in a class beyond the end of the 9th week must receive a grade other than a “W.”

4. The “W” shall not be used in calculating grade point averages, but excessive “W”s shall be used as a factor in progress probation and dismissal procedures.

5. Students will be blocked from registering in courses in which they have three previously recorded “W” notations or have exceeded the maximum enrollment limit (see Course Enrollment, Repetition and Withdrawal Limits). Students may petition Admissions & Records for exceptions (www.sbcc.edu/forms).

6. If a student officially drops prior to the course census date, no notation will be recorded on the transcript.

7. A student activated for military service may receive a military withdrawal (MW) at any time during the semester. Contact Admissions & Records. Military withdrawals will not factor into progress probation, dismissal and shall not be counted for the permitted number of withdrawals.

Special Instructional Programs

Professional Development Center
The Professional Development Center (PDC) provides coordination and administration for credit-based, short-term workplace training and contract education. Most courses are housed in the Professional Development Studies and Computer Applications and Office Management departments, and are delivered in half-day and one-day training formats. See Professional Development Studies and Computer Applications courses in this Catalog. Workshops focus on such topics as Customer Service, Handling Difficult Situations, Leadership, Teamwork and Microsoft Computer Applications. The PDC also coordinates ESL and Workplace Spanish with local employers. For more information about the center, contact Melissa V. Moreno, Dean, Educational Programs, at (805) 683-8284 or melissa.moreno@sbcc.edu.

Honors Program
SBCC has established an Honors Program emphasizing a rigorous and interdisciplinary approach to general education. The courses developed meet the needs of students whose academic goals and interests are not satisfied by regular courses. Students who enroll in the Honors curriculum will gain the opportunity to become independent learners, participate actively in the shaping of their education, and exercise their talents at the highest level of excellence of which they are capable. For further information, see the Honors section of this Catalog.

Study Abroad Program
Santa Barbara City College is committed to promoting international understanding and global responsibility. Part of that commitment is reflected through offering opportunities to study in foreign countries.

SBCC offers full semester-length programs in a number of countries. In the past, SBCC semester program participants have studied in Cuba, France, Italy, England, Spain, Turkey, Greece, Costa Rica, China, Vietnam, Chile, Argentina and New Zealand. Courses typically include a broad range of disciplines, such as art, literature, political science, marketing, communication, and language courses appropriate to the countries.

Summer Programs
Language programs may be available during the summer for four weeks of intensive study in Costa Rica, Spain, France, Italy, Cuba or other non-English speaking destinations. Non-language summer programs have included film studies and production in Italy, Thailand, Germany and Australia, photography in Cuba, France and England, communication in Australia, Germany, India and Rwanda, art history in France, marketing in England, France and Austria, as well as other disciplines and destinations. New programs are continuously being developed.

Students normally study at private facilities in the host country and live with local families or in student apartments. Field trips and excursions to nearby points of interest are included in all Study Abroad programs. The cost ranges between $9,000 and $12,000 for semester programs and is considerably less for the summer programs. Excursions, lodging and meals
(for some programs) are included in the program cost. Limited scholarships, grants, loans and other financial aid are available for those students who qualify. Additional information about these programs is available from the Study Abroad Office, located in the International Education Center, Room 1, (805) 965-0581, ext. 2494, or www.sbcc.edu/studyabroad.

Classes on High School Campuses
Some courses are currently offered on local high school campuses. Contact counselors at individual high school sites for courses available, or contact the SBCC Dual Enrollment Director at (805) 898-8174.

Distance Education
Online courses provide excellent opportunities for students to pursue their educational goals with time and place flexibility. These courses are offered over the Internet and should not require on-campus attendance. Online courses comprise equivalent content and satisfy the same academic requirements as their on-campus counterparts.

Online Student Success
Online courses are rigorous and require a clear commitment. You will need to be motivated, well-organized, and on-task to succeed in this mode of learning. Check the online course descriptions at www.sbcc.edu/distanceeducation/onlinecourses.php for information about making initial contact with the instructor. We strongly encourage you to take the Distance Education Orientation to determine whether you are ready to take an online course and to help you prepare for distance learning. You can find this at www.sbcc.edu/distanceeducation/orientation_distance_ed.php.

On-Campus Attendance
Although fully online courses do not require specific time-and-place commitments, some partially-online (hybrid) courses require varying levels of on-campus attendance, as determined by the instructor:
• Fully online courses require no on-campus meetings or exams but may require students to take proctored exams. These can be accomplished via virtual proctoring or approved in-person arrangements with the instructor.
• Partially online courses may require attendance at on-campus orientations and exams, or have regular meeting times.

Check the online course descriptions at www.sbcc.edu/distanceeducation/onlinecourses.php for information on each section’s attendance requirements.

Fully Online Programs
The following online degrees and certificates are offered completely online:
- Access SQL Professional (SCA)
- Anthropology (AA)
- Administration of Justice for Transfer (AS-T)
- Administration of Justice:
  - Legal Studies Emphasis (AS, C)
- Applied Photography (AA, C)
- Business Communications (SCA)
- Cancer Information Management (AS, C)
- Communication: Communication Science Emphasis (AA)
- Computer Information Systems (AS)
- Computer Information Systems: Emphasis in System Administration (AS)
- Computer Proficiency Online (SCA)
- Film and Media Studies (AA)
- Graphic Design and Photography:
  - Graphic Design Concentration (AA)
- Global Studies (AA)
- Health Information Technology (AS)
- Help Desk and Desktop Support Level 1 (SCA)
- Information Design (SCA)
- Information Technology Management (SCA)
- International Business (AA, C)
- International Marketing Communication (SCA)
- Introduction to Graphic Design (C)
- Liberal Arts and Sciences:
  - Art and Humanities Emphasis (AA)
- Liberal Arts and Sciences:
  - Science and Math Emphasis (AA)
- Liberal Arts and Sciences:
  - Social and Behavioral Science Emphasis (AA)
- Marketing (AA, C)
- Medical Coding Specialist (C)
- Microsoft Office Development (SCA)
- Natural History (AA)
- Photo Design (SCA)
- Photo Design - Advanced (SCA)
- Political Science for Transfer (AA-T)
- Spanish for Transfer (AA-T)
- Technical Writing (SCA)
- Web Marketing and Media Design (SCA)

Technical Requirements
In order to log on to course websites, all students taking online courses must have access to a computer/mobile
device with an Internet connection and a recommended Web browser. Information on specific requirements is located at www.sbcc.edu/distanceeducation. Note: that Modern Languages courses may require that a student use a computer/mobile device with sound capabilities. We strongly encourage you to take the assessment to determine whether you are ready to take an online course. You can find this at www.sbcc.edu/distanceeducation/orientation_distance_ed.php.

Support for Classes
While taking online classes, students will be able to seek support from several sources. Technical assistance is available through Student Technical Support at (805) 965-0581 ext. 2949 or online@sbcc.edu and at www.sbcc.edu/support/contact/. Accessibility assistance for disabled students is available through Disabled Student Programs/Services (DSPS) at www.sbcc.edu/dsps. Find additional student services embedded in Moodle and Canvas, the college’s authorized learning management systems.

Additional Information
www.sbcc.edu/distanceeducation
This site includes information on the advantages of distance learning, links to the locations of each semester’s online courses, lists the fully online programs and degrees, links directly to student technical support, provides frequently asked questions (FAQ), links directly to the campus portal, details steps to enrollment, includes comprehensive information on preparation for Distance Education, details technical requirements, provides information on how to start a course, lists important dates, includes information on library services for Distance Education students, details policies and procedures, provides up-to-date information on state authorization of Distance Education and more. Course schedules, technical requirements and registration information can be found at www.sbcc.edu/distanceeducation/index.php. For support: (805) 965-0581, ext. 2949 or online@sbcc.edu.

State Authorization of Distance Education Outside of California
If you are a Santa Barbara City College student (or prospective student) who will not reside in California while enrolled in Distance Education courses at Santa Barbara City College, be aware of the following information:

Santa Barbara City College delivers online education programs and courses throughout the United States and internationally, and its online offerings continue to expand. All programs have been approved by the California Community Colleges Chancellor’s Office. Many states have prescribed an “authorization” process for out-of-state institutions delivering online programs to its state residents. States are attempting through these processes to ensure quality postsecondary education, to preserve the integrity of an academic degree and to instill greater consumer protection for their student citizens.

Authorization (sometimes referred to as “registration,” “licensure,” “approval,” etc.) indicates that certain minimum standards have been met by the institution under the laws and regulations of that state. Authorization does not constitute an endorsement of any institution, course or degree program. Credits earned at an institution do not necessarily transfer to all other institutions.

Santa Barbara City College has taken steps to protect its students and operations nationwide. The institution has been granted authorizations, exemptions and waivers from many states. In other states, Santa Barbara City College can operate without such authorization because the state’s laws do not pertain to a public institution, to an accredited institution or to the college’s activities in that state. We advise students residing in states in which Santa Barbara City College is not approved to offer distance education not to enroll in Distance Education classes at Santa Barbara City College. See www.sbcc.edu/distanceeducation/stateauthorization.php for a complete list of states in which Santa Barbara City College is approved to offer Distance Education.

Complaints about a Santa Barbara City College Online Course?
If you are a student who wishes to complain about a Santa Barbara City College course delivered via Distance Education, consider contacting your instructor. If you are unable to resolve your complaint through the instructor, contact the department chair. If you are unable to resolve your complaint through the department chair, contact Kenley Neufeld, the Dean for Distance Education at neufeld@sbcc.edu. If you are unable to resolve your complaint through the dean, contact the Executive Vice President of Educational Programs.

If you are unable to resolve your complaint at any of these levels, consider contacting the Accrediting Commission for Community and Junior Colleges/Western Association of Schools and Colleges at 10 Commercial Boulevard, Suite 204, Novato, CA 94949, (415) 506-0234, accjc@accjc.org.
## 2016-2017 SBCC Programs of Study

**(In Alphabetical Order)**

Programs of study in which an Associate in Arts (AA) Degree, Associate in Arts for Transfer (AA-T) Degree, Associate in Science (AS) Degree, Associate in Science for Transfer (AS-T), a Certificate of Achievement (C), Skills Competency Award (SCA), or a Departmental Award (D) are offered:

<table>
<thead>
<tr>
<th>Access SQL Professional (SCA)</th>
<th>Business Administration, Level II (SCA)</th>
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<td>Accounting (AS)</td>
<td>Business Communications (SCA)</td>
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<td>Accounting Assistant/Bookkeeper, Level I (D)</td>
<td>California State University General Education</td>
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<tr>
<td>Accounting Assistant/Bookkeeper, Level II (D)</td>
<td>Breadth Pattern (C)</td>
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<tr>
<td>Accounting Assistant/Bookkeeper, Level III (D)</td>
<td>Cancer Information Management (AS/C)</td>
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<tr>
<td>Accounting Assistant/Bookkeeper, Level IV (C)</td>
<td>Certified Nursing Assistant (SCA)</td>
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<td>Acting Level I (SCA)</td>
<td>Chemistry (AA)</td>
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<tr>
<td>Acting Level II (SCA)</td>
<td>Chicano Studies (AA)</td>
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<tr>
<td>Acute Care CNA (SCA)</td>
<td>Cisco Networking Associate (SCA)</td>
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<tr>
<td>Administration of Justice: Criminology Emphasis (AS/C)</td>
<td>Cloud Computing Specialist (SCA)</td>
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<tr>
<td>Administration of Justice: Law Enforcement Emphasis (AA/AS/C)</td>
<td>Commercial Diving (SCA)</td>
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<td>Legal Studies Emphasis (AS/C)</td>
<td>Communication:</td>
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<td>Administration of Justice: for Transfer (AS-T)</td>
<td>Communication Science Emphasis (AA)</td>
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<td>Advanced Photo Design (SCA)</td>
<td>Communication Studies for Transfer (AA-T)</td>
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<td>Alcohol and Drug Counseling (AA/C)</td>
<td>Computer Applications and Office Management:</td>
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<tr>
<td>American Sign Language (AA)</td>
<td>Emphasis in Business Software Specialist (AS/C)</td>
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<tr>
<td>Animation and Gaming (AA/C)</td>
<td>Computer Applications and Office Management:</td>
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<tr>
<td>Anthropology (AA)</td>
<td>Emphasis in Office Management (AS/C)</td>
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<tr>
<td>Anthropology for Transfer (AA-T)</td>
<td>Computer Information Systems (AS)</td>
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<tr>
<td>Applied Photography (AA/C)</td>
<td>Computer Information Systems:</td>
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<tr>
<td>Art: Emphasis in Art History (AA)</td>
<td>Emphasis in System Administration (AS)</td>
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<td>Art: Emphasis in Art Studio (AA)</td>
<td>Computer Network Engineering (AS/C)</td>
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<tr>
<td>Art History for Transfer (AA-T)</td>
<td>Computer Proficiency Online (SCA)</td>
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<tr>
<td>Associate Child Care Teacher (C)</td>
<td>Computer Science (AS/C)</td>
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<td>Automotive Service and Technology (AS/C)</td>
<td>Construction Technology (AS/C)</td>
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<td>Baking and Pastry (SCA)</td>
<td>Cosmetology (AS/C)</td>
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<tr>
<td>Biological Sciences (AA)</td>
<td>Creative Writing: General Emphasis (C)</td>
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<td>Bio-Medical Sciences (D)</td>
<td>Creative Writing: Professional Writing Emphasis (C)</td>
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<tr>
<td>Black Studies (AA)</td>
<td>Culinary Arts (AS/C)</td>
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<tr>
<td>Bookkeeping (SCA)</td>
<td>Database Programming and Applications Development (C)</td>
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<tr>
<td>Business Administration (AA)</td>
<td>Diagnostic Medical Sonography (C)</td>
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<td>Business Administration for Transfer (AS-T)</td>
<td>Digital Audio Production (SCA)</td>
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<td>Business Administration:</td>
<td>Digital Cinematography (SCA)</td>
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<tr>
<td>Emphasis in Entrepreneurship (AA/C)</td>
<td>Digital Non-Linear Editing (SCA)</td>
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<td>Business Administration:</td>
<td>Digital Visual Foundation (SCA)</td>
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<tr>
<td>Emphasis in Management (AA/C)</td>
<td>Directing for Film and Video (SCA)</td>
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<tr>
<td>Business Administration, Level I (SCA)</td>
<td>Diversity Issues in Early Childhood Education (C)</td>
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<td>Documentary Filmmaking (SCA)</td>
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<td>Drafting/CAD (AS/C)</td>
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<td>Early Childhood Education (AS/C)</td>
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<td>Early Childhood Education for Transfer (AS-T)</td>
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<td>Economics (AA)</td>
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<td>Economics for Transfer (AA-T)</td>
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<td>Elementary Teacher Education for Transfer (AA-T)</td>
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<td>Emergency Medical Technician-Basic (SCA)</td>
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<td>Engineering (AA/AS)</td>
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<td>English (AA)</td>
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<td>English for Transfer (AA-T)</td>
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<td>Entrepreneurship (SCA)</td>
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Entrepreneurship: Web Design, Level I (SCA)
Entrepreneurship: Web Design, Level II (SCA)
Environmental Horticulture (C)
Environmental Horticulture:
  Ecological Restoration and Management Emphasis (AS)
Environmental Horticulture:
  Landscape Contracting C-27 License Emphasis (AS)
Environmental Horticulture:
  Landscape Design Emphasis (AS)
Environmental Horticulture:
  Nursery and Greenhouse Technology Emphasis (AS)
Environmental Studies (AA)
Esthetician, Level I (SCA)
Esthetician, Level II (SCA)
Ethnic Studies (AA)
Film Production (AA)
Film and Media Studies (AA)
Finance (AA/C)
French (AA)
Game Design (D)
Geography (AA)
Geography for Transfer (AA-T)
Geological Sciences (AS)
Geology for Transfer (AS-T)
Global Studies (AA)
Graphic Design and Photography:
  Graphic Design Concentration (AA/C)
Graphic Design Entrepreneur I (SCA)
Graphic Design Entrepreneur II (SCA)
Health Information Technology (AS)
Healthy Aging (AA/SCA)
Help Desk and Desktop Support, Level I (SCA)
Help Desk and Desktop Support, Level II (SCA)
History (AA)
History for Transfer (AA-T)
Home Health Aide (SCA)
Honors: Humanities/Social Sciences Emphasis
  (C and C, with Highest Honors)
Honors: Science/Mathematics Emphasis
  (C and C, with Highest Honors)
Hospitality (AS/C)
Hospitality Operations Specialist (SCA)
Human Resource Hospitality Specialist (SCA)
Independent Film Producing (SCA)
Infant/Toddler Development (C)
Information Design (SCA)
Information Technology Management (SCA)
Interior Design (AA/C)
Interior Design Part 1 (SCA)
Interior Design Part 2 (SCA)
International Business (AA/C)
International Marketing Communication (SCA)
International Marketing: Fashion and Beauty (SCA)
Intersegmental General Education
  Transfer Curriculum (C)
Introduction to Graphic Design (C)
Introduction to Teaching English as a
  Foreign Language (SCA)
Introductory Costume Crafts and Design (SCA)
Journalism (AA/C)
Journalism for Transfer (AA-T)
Kinesiology for Transfer (AA-T)
Landscape Operations (SCA)
Law and Society (AA)
Law and Society: Criminal Justice Emphasis (AA)
Liberal Arts: Emphasis in Bio-Medical Sciences (AA)
Liberal Arts and Sciences:
  Arts and Humanities Emphasis (AA)
Liberal Arts and Sciences:
  Science and Mathematics Emphasis (AA)
Liberal Arts and Sciences:
  Social and Behavioral Sciences Emphasis (AA)
Liberal Studies: Emphasis in Education (AA)
Mac OS X Administration (SCA)
Marine Diving Technician (AS/C)
Marine Science (D)
Marketing (AA/C)
Mathematics (AA)
Mathematics for Transfer (AS-T)
Media Arts (AA/C)
Media Design and Development (SCA)
Medical Coding Specialist (C)
Microsoft Office Development (SCA)
Microsoft SQL Server Database Administration (SCA)
Microsoft Windows System:
  Administration and Security (SCA)
Middle East Studies (AA)
Mobile Application Developer (SCA)
Mobile Device Administration (SCA)
Mobile Media Core (SCA)
Motion Graphics and Broadcast Design (SCA)
Music (AA/D)
Native American Studies (AA)
Natural History (AA/D)
Nursing: ADN (AS)
Office Assistant (SCA)
PC Support/Network Management (C)
Personal Chef Training (SCA)
Philosophy (AA)
Philosophy for Transfer (AA-T)
Photo Design (SCA)
Photo Design II (SCA)
Photojournalism (SCA)
Physical Education (AA)
Physical Education: Emphasis in
  Athletic/Personal Fitness Training (AA)
Degrees, Certificates and Awards

Upon satisfactory completion of requirements and upon approval of the Board of Trustees, students may earn the Associate in Arts Degree, Associate in Arts for Transfer Degree, Associate in Science Degree, Associate in Science for Transfer Degree, Certificate of Achievement, Skills Competency Award and Department Award.

Santa Barbara City College
Associate in Arts/Science Degrees
The awarding of an Associate Degree represents more than an accumulation of units. It symbolizes a successful attempt on the part of the college to lead students through patterns of learning experiences designed to develop certain capabilities and insights.

Among these are the ability to think and to communicate clearly and effectively, both orally and in writing; to use mathematics; to understand the modes of inquiry of the major disciplines; to be aware of other cultures and times; to achieve insights gained through experience in thinking about ethical problems; and to develop the capacity for, and sense of, self-understanding. In addition to these accomplishments, the student should possess sufficient depth in some field of knowledge to contribute to lifetime interest.

The governing board of the Santa Barbara Community College District shall confer the degree of Associate in Arts or Associate in Science upon a student who has demonstrated competence in reading, written expression and mathematics, and who has satisfactorily completed at least 60 semester units of college work. This coursework requirement will be fulfilled in a curriculum accepted toward the degree by the college (courses numbered 100 or higher as shown in this Catalog). It must include at least 18 semester units in General Education and at least 18 semester units in a major.

Students who major in Liberal Studies, or are undecided about a major, should refer to “Liberal Studies” in this Catalog’s Index.

Philosophy of General Education
The General Education program at Santa Barbara City College outlines a core curriculum that provides an opportunity for students to explore elements of the intellectual and ethical traditions to which they belong. The faculty believes that this common core is of general and lasting intellectual significance and that it will establish a foundation for the lifelong process of intellectual inquiry and the integration of knowledge, skills, attitudes and experiences.

College-educated persons should be able to use this knowledge when evaluating and appreciating the physical environment, the culture and the society in which they live. Most important, General Education should lead to better self-understanding. The General Education program has several major objectives:

- To cultivate the intellectual processes of learning and to examine methods for acquiring, integrating and applying knowledge.
- To help students understand the conditions and forces which shape their lives and thus help them to cope with a complex and changing world.
• To explore elements of our common human nature and to assist students in applying critical and informed judgments to the cultural achievements of their own and other cultures.

Santa Barbara City College Associate in Arts and Associate in Science Degree Graduation Requirements
The Associate Degree will be awarded upon completion of both department and college requirements as follows:
1. Complete all department requirements with a “C” or better or “P” in each course. Candidates for an Associate Degree are required to complete at least 20% of the department requirements through SBCC.
2. Complete a general education option (Option 1: SBCC General Education and Institutional and Information Competency; Option 2: IGETC; Option 3: CSU GE Breadth). General Education options allowed for each Associate Degree program vary. Refer to www.sbcc.edu/apply/d egrees_certificates.php for a list of General Education options for each SBCC Associate Degree program;
3. Complete a total of 60 degree-applicable units (SBCC courses numbered 100 or higher);
4. Maintain a cumulative GPA of 2.0 or better in all units attempted at SBCC;
5. Maintain a cumulative GPA of 2.0 or better in all college units attempted; and
6. Candidates for an Associate Degree are required to complete 15 units through SBCC.

Santa Barbara City College General Education, Institutional and Information Competency Requirements

General Education State Requirements (Areas A-D)
1. Eighteen (18) units of General Education course credits to include at least one course from each of the following areas:
   A. Natural Science with Lab
   B. Social & Behavioral Science
   C. Humanities
   D. Language & Rationality
   D-1. English Composition (one course)
   D-2. Communication & Analytical Thinking (one course)

SBCC Institutional Requirements (Area E)
E. Includes Mathematics and 3 sub-areas.

Information Competency Requirement (Area F)
F. One unit of Information Literacy or College Research Skills.

Santa Barbara City College General Education (Areas A-D) Approved Course Listings
Complete a minimum of 18 semester units (or 27 quarter units) of General Education from Areas A-D to include at least one course for a total of 3 semester units (4 semester units for Natural Science) from each area (A, B, C, D-1 and D-2). A course used to meet a requirement in one Area (A-D) cannot be used to meet any other requirement in Areas A-D.

A. Natural Science with lab
(4 semester units or 4 quarter units)
Anthropology 101 + 101L — Physical Anthropology and Lab
Anthropology 101H + 101L — Physical Anthropology, Honors and Lab
Biology 100 — Concepts of Biology
Biology 101 — Plant Biology
Biology 102 — Animal Biology
Biology 103 — Cell Biology
Biology 104 + 105 — Molecular Biology
Biology 112 + 141 — Evolution & Adaptation, Biology Lab
Biology 120 — Natural History
Biology 122 + 123 — Ecology & Lab
Biology 124 — Biological Oceanography
Biology 125 — Marine Biology
Biology 140 + 141 — Principles of Biology and Biology Lab
Bio-Med. Sciences 100 — The Human Body
Bio-Med. Sciences 107 — Human Anatomy
Bio-Med. Sciences 108 — Human Physiology
Bio-Med. Sciences 157 — General Microbiology
Botany 100 — Concepts of Botany
Botany 121 — Plant Diversity
Chemistry 101 — Introductory Chemistry
Chemistry 104 — Fundamentals of General Biological Chemistry
Chemistry 155 — General Chemistry 1
Earth Science 101 + 102 — Intro. Astronomy & Lab
Earth Science 101H + 102 — Introductory Astronomy, Honors & Lab
Earth Science 111 + 111L — Dynamic Earth-Physical Geology & Dynamic Earth — Physical Geology, Lab
Earth Science 111H + 111L — Dynamic Earth-Physical Geology & Dynamic Earth — Physical Geology, Lab
### Earth Science
- Earth Science 112 + 112L — History of the Earth & Lab
- Earth Science 115 + 115L — Environmental Geology & Lab
- Earth Science 141 + 141L — Physical Geography & Lab
- Earth Science 151 + 151L — Introduction Physical Oceanography & Lab
- Earth Science 152 + 152L — Weather & Climate & Lab

### Environmental Studies
- Environmental Studies 110 + 111 — Humans & the Biological Environment & Environmental Field Studies

### Geography
- Geography 101 + 101L — Physical Geography
- Geography 152 + 152L — Weather & Climate & Lab

### Physical Science
- Physical Science 103 — The Physical Universe
- Physical Science 107 — Nanoscience in Society
- Physics 101 + 101L — Introductory Physics
- Physics 102 — Introduction to Physics for Science Majors
- Physics 105 — General Physics
- Physics 106 — General Physics
- Physics 110 — Introductory Physics
- Physics 111 — Introductory Physics
- Physics 121 — Mechanics of Solids & Fluids
- Zoology 122 + 123 — Animal Diversity & Lab

### B. Social/Behavioral Science

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Music 110 — Music Appreciation
Music 110H — Music Appreciation, Honors
Music 112 — History/Appreciation of Jazz/20th Century American Music
Music 114A — Survey of Music History
Music 114B — Survey of Music History
Music 115 — History & Appreciation of Rock & Popular Music
Music 118 — World Music
Music 119 — Middle Eastern Music, Dance & Culture
Native American Studies 112 — Native American Art
Native American Studies 113 — The Indian in Literature: Fact & Fiction
Philosophy 100 — Introduction to Philosophy
Philosophy 100H — Introduction to Philosophy, Honors
Philosophy 101 — Introduction to Ethics
Philosophy 101H — Introduction to Ethics, Honors
Philosophy 102 — Comparative World Religions
Philosophy 102H — Comparative World Religions, Honors
Philosophy 105 — Business Ethics
Philosophy 200 — History of Philosophy: Ancient
Philosophy 201 — History of Philosophy: Modern
Philosophy 203 — History of Philosophy: Contemporary
Philosophy 204 — History & Philosophy of Great Ideas of Physics
Philosophy 207A — Issues in Philosophy Series: Comparative Philosophy, East & West
Physical Education 250 — Survey & Appreciation of Dance History
Psychology 135 — Psychology of Film
Spanish 101 — Beginning Spanish I
Spanish 102 — Beginning Spanish II
Spanish 103 — Intermediate Spanish
Spanish 104 — Intermediate Spanish
Spanish 132 — Introduction to Literary Analysis
Spanish 133 — Survey of Spanish Literature
Spanish 134 — Survey of Latin American Literature
Spanish 135 — Latin American Culture
Spanish 136 — Contemporary Cultures: Central America
Spanish 138 — Contemporary Cultures: South America
Spanish 139 — Contemporary Cultures of Spain
Spanish 146 — Spanish for Native Speakers
Spanish 147 — Spanish for Native Speakers
Spanish 150 — Advanced Spanish
Spanish 160 — Advanced Spanish
Theatre Arts 103 — Theatre Appreciation
Theatre Arts 104 — Script Analysis
Theatre Arts 106 — Development of Drama: Musical Theatre
Theatre Arts 107 — Development of Drama: Greek to Renaissance
Theatre Arts 108 — Development of Drama: Restoration to Contemporary
Theatre Arts 116 — Readers Theatre
Theatre Arts 120 — Understanding Scenography
Theatre Arts 136 — Theatrical Makeup Techniques
Theatre Arts 160 — Chicano Theatre

D. Language and Rationality (6 semester units or 8 quarter units. One course from D-1 and one course from D-2 required)

D-1: English Composition (3 semester units or 4 quarter units): Complete one of the following courses with a “C” or better or “Pass”:
English 110 — Composition & Reading
English 110H — Composition & Reading, Honors

D-2: Communication and Analytical Thinking (3 semester units or 4 quarter units)
Biology 103 — Cell Biology
Communication 121 — Interpersonal Communication
Communication 121H — Interpersonal Communication, Honors
Communication 122 — Mediated Interpersonal Communication
Communication 131 — Fundamentals of Public Speaking
Communication 131H — Fundamentals of Public Speaking, Honors
Communication 141 — Group Discussion
Communication 161 — Business & Professional Communication
Communication 162 — Mediated Business & Professional Communication
Communication 235 — Argumentation & Debate
88 Degrees, Certificates and Awards

Computer Information Systems 101 — Intro. to Computer Information Systems
Computer Science 101 — Computer Concepts
English 111 — Critical Thinking & Composition through Literature
English 111H — Critical Thinking & Composition through Literature, Honors
Math 107 — Intermediate Algebra
Math 108 — Structures and Concepts in Mathematics I
Math 114 — Mathematics for Liberal Arts Majors
Math 117 — Elementary Statistics
Math 117H — Elementary Statistics, Honors
Math 120 — College Algebra
Math 130 — Calculus for Biological Sciences, Social Sciences & Business I
Math 131 — Calculus for Biological Sciences, Social Sciences & Business II
Math 137 — Precalculus I: College Algebra & Functions
Math 138 — Precalculus II: College Algebra & Trigonometry
Math 150 — Calculus, with Analytic Geometry I
Math 160 — Calculus, with Analytic Geometry II
Math 200 — Multivariable Calculus
Math 210 — Linear Algebra
Math 220 — Differential Equations
Philosophy 111 — Critical Thinking & Writing in Philosophy
Philosophy 205 — Introduction to Logic
Psychology 150 — Statistics for Behavioral Sciences

Santa Barbara City College

Institutional Requirements (Area E)
Complete Area E-1 and three of the four (3 of 4) subsections listed below (E2-E5). Courses in Area E may also be counted in Areas A-D above, where applicable.

E-1: Mathematics Requirement: (0-5 semester units or 0-5 quarter units): Students must demonstrate math proficiency through an SBCC assessment math score higher than MATH 107 or 111 or through completion of one of the following courses with a grade of “C” or better (or Pass): MATH 107, 108, 111, 114, 117, 117H, 120, 130, 131, 137, 138, 150, 160, 200, 210, 220; PSY 150

Complete three of the four (3 of 4) subsections listed below (E2-E5):

E-2: American Institutions Requirement (A.I.R.)
(3 semester units or 4 quarter units): HIST 101 or 102 or 102H or POLS 101 or 104 or 106H

E-3: Physical Education and Health Education:
(2-4.5 semester units or 2-5 quarter units)
(Choose one option below):
Option One: 2 Physical Education Activity courses for a total of 2-3 semester units (or 2 quarter units)
Option Two: 1-1.5 semester unit (or 1 quarter unit) of Physical Education Activities and 3 semester units (or 4 quarter units) of HE 101 or 102 or 213.

E-4: Oral Communication
(3 semester units or 4 quarter units): COMM 121, 121H, 122, 131, 131H, 141, 161, 162, 235

*These courses fulfill UCSB’s General Education ethnicity requirement.

Santa Barbara City College Information Competency Requirement (Area F)
Complete at least 1.0 semester unit or 1.0 quarter unit. Required of ALL new to college and new transfer students entering SBCC in Fall 2007 and after. Also required of all students who were enrolled at SBCC before Fall 2007, stopped attending for one semester or more, and returned to SBCC in Fall 2007 or after to complete degree requirements. Exception: Information Competency is required effective Summer 2006 for Liberal Studies majors. ENG 120 or LIB 101 with a Pass (P) satisfies this requirement.

Santa Barbara City College Associate in Arts and Associate in Science for Transfer Degrees
The Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code sections 66746-66749) guarantees admission to a California State University (CSU) campus for
any community college student who completes an “Associate Degree for transfer”, a newly established variation of the associate degrees traditionally offered at a California community college. The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor’s degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major. In order to earn one of these degrees, students must complete a minimum of 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the AA-T or AS-T will be required to complete no more than 60 units after transfer to earn a bachelor’s degree (unless the major is a designated “high-unit” major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements. For the latest information about transfer degrees, visit www.sb1440.org or www.adegreewithaguarantee.com.

At the time of Catalog publication, a student may earn the following AA-T/AS-T degrees at SBCC: Administration of Justice for Transfer (AS-T), Anthropology for Transfer (AA-T), Art History for Transfer (AA-T), Business Administration (AS-T), Communication Studies for Transfer (AA-T), Early Childhood Education for Transfer (AS-T), Economics (AA-T) Elementary Teacher Education for Transfer (AA-T), English for Transfer (AA-T), Geography for Transfer (AA-T), Geology for Transfer (AS-T), History for Transfer (AA-T), Journalism for Transfer (AA-T), Kinesiology for Transfer (AA-T), Mathematics for Transfer (AS-T), Philosophy for Transfer (AA-T), Physics for Transfer (AS-T), Political Science for Transfer (AA-T), Psychology for Transfer (AA-T), Sociology for Transfer (AA-T) Spanish for Transfer (AA-T), Studio Arts for Transfer (AA-T) and Theatre Arts for Transfer (AA-T) Additional majors are under development. For more information, refer to appropriate Catalog section and see a counselor.

Requirements
The following is required for all AA-T or AS-T degrees:

1. Minimum of 60 CSU-transferable semester units.

2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum of 2.0 is required for admission, some majors may require a higher GPA. Please consult with a counselor for more information.

3. Completion of a minimum of 18 semester units in an AA-T or AS-T major as detailed in the appropriate departmental section of this Catalog. All courses in the major must be completed with a grade of “C” or better or Pass (Title 5 § 55063).

4. Certified completion of the California State University General Education-Breadth pattern (CSU GE Breadth); OR the Intersegmental General Education Transfer Curriculum (IGETC-CSU) pattern (see “Transfer Curricula” in the Catalog Index for more information about CSU GE Breadth and IGETC requirements). Important Note: The Physics and Geology AS-T require completion of IGETC. The CSU GE Breadth is not allowed for these degrees.

5. Candidates for an Associate Degree for Transfer are required to complete at least 20% of the department requirements through SBCC. Candidates for an Associate Degree for Transfer are also required to complete 15 units through SBCC.

Santa Barbara City College Certificate of Achievement
A state-approved program of study, designed to prepare students for job entry or career advancement, allows for Certificate programs comprised primarily of courses within a specific discipline. For most Certificate programs, students must complete all department requirements with a cumulative grade point average (GPA) of 2.0 or better. Some Certificate programs require a “C” or better in every course. Candidates for a Certificate of Achievement are expected to complete at least 20% of the department requirements in residence at SBCC. Some certificates may require a higher percentage of requirements completed in residence at SBCC, Certificates of Achievement differ from Associate Degrees in that they do not require completion of SBCC Graduation Requirements for the Associate Degree.

Santa Barbara City College Skills Competency Award
The Skills Competency Award (SCA) Program identifies courses which, when taken together, will best prepare students to enter the work force in their chosen field. Candidates for a Skills Competency Award are expected to complete at least 20% of the
department requirements in residence at SBCC. Some SCAs may require a higher percentage of requirements completed in residence at SBCC. Skills Competency Awards are not state-approved. These awards provide future employers with verification that the student has mastered core competencies. Students must complete each required course with a “C” or better or Pass (P). Short-term programs leading to a Skills Competency Award are available in these areas:

- Access SQL Professional
- Acting Level 1 and 2
- Acute Care CNA
- Advanced Photo Design
- Baking and Pastry
- Bookkeeping
- Business Administration, Level I and II
- Business Communications
- Certified Nursing Assistant
- Cisco Networking Associate
- Cloud Computing Specialist
- Commercial Diving
- Computer Proficiency Online
- Digital Audio Production
- Digital Cinematography
- Digital Non-Linear Editing
- Digital Visual Foundation
- Directing for Film and Video
- Documentary Filmmaking
- Emergency Medical Technician-Basic
- Entrepreneurship
- Entrepreneurship: Web Design, Level I and II
- Esthetician, Level 1 and 2
- Graphic Design Entrepreneur I and II
- Healthy Aging
- Help Desk and Desktop Support, Level 1 and 2
- Home Health Aide
- Hospitality Operations Specialist
- Human Resource Hospitality Specialist
- Independent Film Producing
- Information Design
- Information Technology Management
- Interior Design Part 1 and 2
- International Marketing Communication
- International Marketing: Fashion and Beauty
- Introduction to Teaching English as a Foreign Language
- Introductory Costume Crafts and Design
- Landscape Operations
- Mac OS X Administration
- Media Design and Development
- Microsoft Office Development
- Microsoft SQL Server Database Administration
- Microsoft Windows System Administration and Security
- Mobile Application Developer
- Mobile Device Administration
- Mobile Media Core
- Motion Graphics and Broadcast Design
- Office Assistant
- Personal Chef Training
- Photo Design and II
- Photojournalism
- Public Relations
- Sales and Marketing
- Sustainable Horticulture
- Technical Production
- Technical Writing
- Virtualization System Administration
- Web Marketing and Media Design
- Web Programming
- Web Server Administration

Santa Barbara City College Departmental Award
Departmental Awards are designed to provide students with needed skills in a particular area in a short period of time. Departmental Awards are not state-approved. They are offered to provide recognition of achievement in the following areas:

- Accounting Assistant/Bookkeeper, Levels I, II and III
- Bio-Medical Sciences
- Game Design
- Marine Science
- Music
- Natural History
- Theatre Arts

Santa Barbara City College Transfer Recognition Award
The Transfer Recognition Award is granted to any student who has completed a minimum of 24 units at Santa Barbara City College prior to transfer and has been presented a letter of acceptance from an accredited four-year college or university. An application must be submitted by the student to the Transfer Center.

Catalog Rights
Catalog rights permit the students who are continuously enrolled at the institution to select the catalog year the student will follow for the General Education and degree/certificate requirements provided the catalog selected is one of the following:
• The catalog in effect at the time of initial enrollment;
• The catalog in effect at the time of graduation; or
• Any catalog year between initial enrollment and graduation.

For purposes of determining catalog rights, the catalog year is Fall, Spring, Summer.

Multiple Degrees/Multiple Majors
A student may earn AA, AA-T, AS, and AS-T Degrees for which all local and state requirements have been met. All majors in which degree requirements have been met will be noted on both the student’s transcript and the diploma.

Career and Technical Education Programs
The lack of English language skills will not be a barrier to enrollments in Career and Technical Education programs.

Possibles dificultades con el inglés no son una barrera para matricularse en programas de carreras académicas o educación técnica.

Career and Technical Education (CTE) Curricula
Santa Barbara City College offers a variety of programs and courses in career and technical education leading to Skills Competency and Departmental Award programs, Certificates of Achievement and two-year Associate in Science Degree programs. Subject areas include Business Education, Health and Human Services, Media Arts, Drafting/CAD/Interior Design, Culinary Arts and Hotel Management, Environmental Horticulture, Construction Technologies, Water Science, Computer Network Engineering and Electronics, Marine Diving Technologies and Auto Technologies. Specific award, certificate or degree programs in these occupational areas are listed in the “Programs of Study” table in this Catalog. Programs of study are offered in these areas:

Business Education
Accounting
Accounting Assistant/Bookkeeper, Levels I-IV
Bookkeeping
Business Administration
Business Administration for Transfer
Business Administration: Levels I and II
Business Administration: Emphasis in Management

Business Communications
Computer Applications and Office Management
Computer Information Systems
Computer Proficiency Online
Database Programming and Applications Development
Entrepreneurship: Levels I and II
Entrepreneurship: Web Design, Levels I and II
Finance
International Business
Marketing
Office Assistant
Real Estate
Sales and Marketing

Health
Acute Care CNA
Associate Degree Nursing (ADN)
Cancer Information Management (CIM)
Certified Nursing Assistant (CNA)
Diagnostic Medical Sonography (DMS)
Emergency Medical Technician (EMT)
Health Information Technology (HIT)
Healthy Aging
Home Health Aide (HHA)
Medical Coding Specialist
Radiographic and Imaging Sciences (RT)
Vocational Nursing (LVN)

Human Services
Addictive Disorders Counseling
Administration of Justice: Criminology
Administration of Justice: Law Enforcement
Administration of Justice: Legal Studies
Administration of Justice for Transfer
Associate Child Care Teacher
Cosmetology
Diversity Issues in Early Childhood Education
Early Childhood Education
Esthetician
Infant/Toddler Development
Post-professional Practice:
  Addictive Disorders Counseling
School-Age Care

Media Arts
Animation and Gaming
Applied Photography
Film Production
Game Design
GDP: Graphic Design Concentration
Graphic Design Entrepreneur I and II
92 Career and Technical Education Programs

Introduction to Graphic Design
Journalism
Media Arts
Media Design and Development
Mobile Media Core
Photo Design Photojournalism
Public Relations

Technologies
Automotive Service and Technology
Baking and Pastry
Cisco Networking Associate
Computer Network Engineering
Construction Technology
Culinary Arts
Drafting/CAD/Interior Design
Environmental Horticulture
Fire Technology
Hospitality
Hospitality Operations Specialist
Human Resource Hospitality Specialist
Interior Design: Part 1 and 2
Landscape Operations
Marine Diving Technologies
PC Support/Network Management
Personal Chef Training
Sustainable Horticulture
Water Science

Specialty programs in Cooperative Education and job-site training allow students to combine classroom studies with on-the-job experiences. The main thrust of career and technical education is to provide the student with entry-level job skills for a smooth and productive transition to the workplace. Although the requirements in the majors are generally fixed, students have a wide range of courses from which to choose in meeting General Education requirements. Counselors should be consulted for variations and assistance with planning programs.

Cooperative Work Experience
Santa Barbara City College offers three types of Cooperative Work Experience—General Work Experience, International Work Experience and Career and Technical Education Work Experience:

General Work Experience 290 assists students to acquire good work habits, attitudes and career awareness in actual job settings. Units are based on the number of hours worked throughout the semester:
For paid work, 1 unit = 75 hours, 2 units = 150 hours, 3 units = 225 hours. There are no regular class meetings, but students are required to complete a number of assignments throughout the semester.

International Work Experience assists students to acquire desirable work habits in foreign job settings and to develop an understanding of the role of international business, the foreign country’s work habits, economy, labor laws, and cultural/political factors that affect employment.

By satisfactorily completing the International Work Experience/Internship course, a student may earn up to six units per semester. Units are based on the number of hours worked throughout the semester:
For paid work, 1 unit = 75 hours, 2 units = 150 hours, and 3 units = 225. For volunteer work, 1 unit = 60 hours, 2 units = 120 hours, 3 units = 180 hours.

Career and Technical Education Work Experience combines on-the-job training with classroom instruction, enabling the student to acquire knowledge, skills and attitudes necessary to enter and/or progress in a chosen occupation. Class attendance in a regularly scheduled weekly coordinating class is required by some SBCC departments.

For each semester that a student is enrolled in Cooperative Work Experience, it is required that the student provide evidence of new or expanded responsibilities or learning opportunities beyond those experienced during previous employment. Satisfactory completion of specific job-oriented learning objectives is required for determining the student’s progress and improvement of performance on the job.

By satisfactorily completing a Work Experience course, a student may earn from 1-4 college units. A maximum of 16 Work Experience units may be applied as electives toward the 60 units required for an Associate in Arts or an Associate in Science Degree.

Credits are based on the number of hours worked during the semester: 1 credit = 75 paid hours or 60 volunteer hours.

Prerequisites for Career and Technical Education Work Experience Courses
The Occupational Work Experience class must be directly related to the student’s stated major and the college program in which he/she is enrolled.

Career and Technical Education Departments Offering Work Experience
ADN Nursing
Addictive Disorders Counseling
Automotive Service and Technology
Business Administration
Computer Applications and Office Management
Computer Information Systems
Construction Technology
Cosmetology
Drafting/CAD
Early Childhood Education
Environmental Horticulture
Graphic Design and Photography
Interior Design
Journalism
Marine Diving Technologies
Medical Imaging Sciences
Multimedia Arts and Technologies
School of Culinary Arts and Hotel Management
School of Justice Studies

Job Referral Services
The Career Center receives numerous job orders from employers in the community and provides referrals for full- and part-time jobs and internships. It also provides a website listing information on all on-campus student jobs and maintains an online job referral system. Every spring the center sponsors an annual Job Fair that invites local employers and allows students to learn about career opportunities and to apply for job openings. Additional information about job referral is available at the Career Center, located in the Student Services Building, Room 282, or by calling (805) 965-0581, ext. 2331.

Transfer Curricula
The large majority of SBCC courses have been reviewed and approved for transfer by four-year colleges and universities through formal articulation agreements. These courses apply to one or more General Education, lower division major and/or elective requirements. These transferable courses have University of California (UC) and/or California State University (CSU) designations in this Catalog. These same designations also appear in the Schedule of Credit Classes, which is published each semester.

Most majors at four-year colleges and universities require completion of one or more lower division courses as preparation for the upper division. Nearly all of these lower division requirements can be met through transferable SBCC courses. Students can complete four-year institution General Education requirements prior to transfer.

Articulation agreements, available at www.assist.org, identify which courses apply to General Education and lower division requirements at four-year universities.

Students can complete many of the lower division requirements for majors offered by UC, CSU or independent institutions, even if SBCC does not offer the major.

Students can qualify for transfer to a multitude of four-year majors not specifically offered at SBCC. Students should check the catalog of the college of intended transfer and meet with a counselor for additional information about major programs and requirements.

Articulation with Four-Year Institutions
To assist the student with transfer to four-year institutions, articulation agreements have been established with most California State Universities, University of California campuses and some independent California colleges and out-of-state institutions. These agreements define the courses at Santa Barbara City College that satisfy many lower division major requirements and General Education requirements at four-year institutions. For more information on articulation visit articulation.sbcc.edu.

ASSIST is a computerized student transfer articulation information system that can be accessed over the World Wide Web. It displays reports of how California community college courses can be applied when transferred to California State Universities and University of California campuses.

ASSIST is the official repository of articulation for California’s public colleges and universities, and therefore provides the most accurate and up-to-date information available about student transfer in California. ASSIST may be accessed at www.assist.org.

UC Minimum Eligibility Requirements for Transfer Admission
I. Non-California Residents
The minimum admission requirements for non-residents are very similar to those for California residents. Please consult with the admissions office at one of the university campuses for details. In all cases, however, non-residents must have a minimum grade point average of 2.8 or higher in all UC-transferable college coursework.

II. California Residents
Students who were not eligible for admission to the university when they graduated from high school because they did not meet the Scholarship Requirement must:
1. Complete 60 semester units or 90 quarter units of UC-transferable college credit with a grade point average of at least 2.4 (no more than 14 semester/21 quarter units may be taken Pass/No Pass).
2. Complete the following course pattern requirements, earning a grade of "C" or better in each course:
   • Two transferable college courses (3 semester or 4-5 quarter units each) in English composition; and
   • One transferable college course (3 semester or 4-5 quarter units) in mathematical concepts and quantitative reasoning; and
   • Four transferable college courses (3 semester or 4-5 quarter units each) chosen from at least two of the following subject areas: the arts and humanities, the social and behavioral sciences, and the physical and biological sciences.

Students who were eligible for admission to the university when they graduated from high school—meaning they satisfied the Subject, Scholarship and Examination Requirements, or were identified by the university during their senior year as Eligible in the Local Context—meet UC transfer eligibility requirements if they have a “C” (2.0) average in their transferable college coursework. Students who met the Scholarship Requirement in high school but did not satisfy the 15-course Subject Requirement must take transferable college courses in the missing subjects, earn a “C” or better in each required course and have an overall “C” (2.0) average in all transferable coursework to be eligible to transfer. Each UC campus’s ability to accept students with fewer than 60 transferable units is dependent on campus enrollment targets, which vary from term to term. See a counselor for more information.

Note: Fulfilling the UC minimum eligibility requirements does not guarantee admission to UC campuses. Admission selection criteria vary widely by campus and by major. Consult with your counselor or a UC campus representative to learn about the GPA and courses that may be required for admission to particular campuses and majors. Refer to the University of California website for UC transfer requirements: http://admission.universityofcalifornia.edu/transfer/preparing-admission/index.html.

UC-Transferable Courses
Santa Barbara City College’s UC-Transferable Course Agreement (TCA) is available online at www.assist.org. In addition, the transferability of each course is indicated immediately after the course title and unit information listed in the department/course descriptions section of this Catalog.

CSU Minimum Eligibility Requirements for Transfer Admission
A Santa Barbara City college student who is planning to transfer to one of the campuses of the CSU system can qualify for admission by meeting the following requirements:

Lower-Division Transfer Admission Requirements (1 to 59 semester units)
Many campuses restrict enrollment of lower-division transfer students. California residents may be eligible for CSU admission with fewer than 60 transferable semester units (90 quarter units) if they:
   • Have a college grade point average of 2.0 or better in all transferable college units attempted.
   • Are in good standing at the last college or university attended, i.e., eligible to re-enroll.
   • Meet the admission requirements for a first-time freshman or have successfully completed necessary courses to make up the deficiencies you had in high school if they did not complete the 15-unit (a-g) pattern of college preparatory subjects.
   • Meet the eligibility index required of a freshman.

Some campuses may require lower-division transfer students to have completed English composition and General Education mathematics prior to transfer. Some campuses do not admit lower-division transfer students. Contact your campus of choice to determine whether there are admission limits on the number of lower-division transfer students.

Note: Students who completed college units before they graduated from high school or during the summer between high school graduation and CSU enrollment are considered first-time freshmen and must meet those admission requirements. For more information regarding General Education and pre-major requirements, consult with a counselor and visit www.assist.org.

Students who do not meet the eligibility index from high school are highly recommended to continue their education at a community college and complete 60 or more transferable semester units (90 quarter units) before attempting to transfer to a CSU. Students should complete as many of the General Education and pre-major requirements as possible. Consult with a counselor.

Upper-Division Transfer Admission Requirements (60 to 70 semester units)
You are eligible for admission with 60 or more transferable semester units (90 quarter units) if you:
   • Have a college grade point average of 2.0 or better (2.4 for non-California residents) in all transferable college units attempted.
   • Are in good standing at the last college or university attended, i.e., you are eligible to re-enroll.
   • Have completed or will complete prior to transfer at least 30 semester units (45 quarter units) of courses equivalent to General Education requirements with a grade point average of...
university admission and transfer requirements. For
in the university or college that is not part of the CSU system.
3. Completion of a minimum of 18 semester units in an “AA-T” or “AS-T” major as detailed in the appropriate departmental section of this Catalog. All courses in the major must be completed with a grade of “C” or better or Pass (Title 5 § 55063).
4. Certified completion of the California State University General Education-Breadth pattern (CSU GE Breadth); OR the Intersegmental General Education Transfer Curriculum (IGETC-CSU) pattern (see “Transfer Curricula” in the Catalog Index for more information about CSU GE Breadth and IGETC requirements).

Important Note: The Geology AS-T and the Physics AS-T require completion of IGETC-CSU. The CSU GE Breadth is not allowed for these degrees.

5. Candidates for an Associate Degree for Transfer are required to complete at least 20% of the department requirements through SBCC. Candidates for an Associate Degree for Transfer are also required to complete 15 units through SBCC.

requirements (www.csumentor.edu/planning/transfer).

CSU-Transferable Courses
Santa Barbara City College’s CSU baccalaureate
in an “AA-T” or “AS-T” major as detailed in the Catalog Index for more information about CSU GE Breadth and IGETC requirements.).

Requirements
The following is required for all AA-T or AS-T degrees:

1. Minimum of 60 CSU-transferable semester units.
2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum of 2.0 is required for admission, some majors may require a higher GPA. Consult with a counselor for more information.
3. Completion of a minimum of 18 semester units in an “AA-T” or “AS-T” major as detailed in the appropriate departmental section of this Catalog. All courses in the major must be completed with a grade of “C” or better or Pass (Title 5 § 55063).
4. Certified completion of the California State University General Education-Breadth pattern (CSU GE Breadth); OR the Intersegmental General Education Transfer Curriculum (IGETC-CSU) pattern (see “Transfer Curricula” in the Catalog Index for more information about CSU GE Breadth and IGETC requirements).

Important Note: The Geology AS-T and the Physics AS-T require completion of IGETC-CSU. The CSU GE Breadth is not allowed for these degrees.

5. Candidates for an Associate Degree for Transfer are required to complete at least 20% of the department requirements through SBCC. Candidates for an Associate Degree for Transfer are also required to complete 15 units through SBCC.

the latest information about transfer degrees, visit

At the time of Catalog publication, a student may earn the following AA-T/AS-T degrees at SBCC:
Administration of Justice for Transfer (AS-T), Anthropology for Transfer (AA-T), Art History for Transfer (AA-T), Business Administration for Transfer (AS-T), Communication Studies for Transfer (AA-T), Early Childhood Education for Transfer (AS-T), Economics for Transfer (AA-T), Elementary Teacher Education for Transfer (AA-T), English for Transfer (AA-T), Geography for Transfer (AA-T), Geology for Transfer (AS-T), History for Transfer (AA-T), Journalism for Transfer (AA-T), Kinesiology for Transfer (AA-T), Mathematics for Transfer (AS-T), Philosophy for Transfer (AA-T), Physics for Transfer (AS-T), Political Science for Transfer (AA-T), Psychology for Transfer (AA-T), Sociology for Transfer (AA-T), Spanish for Transfer (AA-T), Studio Arts for Transfer (AA-T) and Theatre Arts for Transfer (AA-T) Additional majors are under development. For more information, refer to appropriate Catalog section and see a counselor.

Santa Barbara City College Associate in Arts and Associate in Science for Transfer Degrees
The Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code Sections 66746-66749) guarantees admission to a California State University (CSU) campus for any community college student who completes an “Associate Degree for transfer”, a newly established variation of the associate degrees traditionally offered at a California community college. The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor’s degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major. In order to earn one of these degrees, students must complete a minimum of 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the AA-T or AS-T will be required to complete no more than 60 units after transfer to earn a bachelor’s degree (unless the major is a designated “high-unit” major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements. For

“C” or better. The 30 units must include all
of the General Education requirements in communication in the English language (English composition, oral communication and critical thinking) and at least one course of at least 3 semester units (4 quarter units) required in college-level mathematics.

Note: Fulfilling the CSU minimum eligibility requirements does not guarantee admission to CSU campuses. Admission selection criteria vary widely by campus and by major. Consult with your counselor or a CSU campus representative to learn about the GPA and courses that may be required for admission to particular campuses and majors. Refer to the CSU Mentor website for CSU transfer eligibility requirements (www.csumentor.edu/planning/transfer).

CSU-Transferable Courses
Santa Barbara City College’s CSU baccalaureate list of transferable courses is available online at www.assist.org. In addition, the transferability of each course is indicated immediately after the course title and unit information listed in the department/course descriptions section of this Catalog.

Santa Barbara City College Associate in Arts
and Associate in Science for Transfer Degrees
The Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code Sections 66746-66749) guarantees admission to a California State University (CSU) campus for any community college student who completes an “Associate Degree for transfer”, a newly established variation of the associate degrees traditionally offered at a California community college. The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor’s degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major. In order to earn one of these degrees, students must complete a minimum of 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the AA-T or AS-T will be required to complete no more than 60 units after transfer to earn a bachelor’s degree (unless the major is a designated “high-unit” major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements. For
Course Identification Numbering System (C-ID)
The Course Identification Numbering System (C-ID) is a statewide numbering system independent from the course numbers assigned by local California community colleges. A C-ID number next to a course signals that participating California colleges and universities have determined that courses offered by other California community colleges are comparable in content and scope to courses offered on their own campuses, regardless of their unique titles or local course number. Thus, if a schedule of classes or catalog lists a course bearing a C-ID number, for example COMM 110, students at that college can be assured that it will be accepted in lieu of a course bearing the C-ID COMM 110 designation at another community college. In other words, the C-ID designation can be used to identify comparable courses at different community colleges. However, students should always go to www.assist.org to confirm how each college’s course will be accepted at a particular four-year college or university for transfer credit.

The C-ID numbering system is useful for students attending more than one community college and is applied to many of the transferable courses students need as preparation for transfer. Because these course requirements may change and because courses may be modified and qualified for or deleted from the C-ID database, students should always check with a counselor to determine how C-ID designated courses fit into their educational plans for transfer.

Students may consult the ASSIST database at www.assist.org for specific information on C-ID course designations. Counselors can help students interpret or explain this information.

General Education Patterns for Transfer
Santa Barbara City College students have several options to complete a General Education pattern prior to transfer:

I. Intersegmental General Education Transfer Curriculum (IGETC)
II. California State University General Education Breadth Pattern
III. Campus-specific General Education Pattern

I. Intersegmental General Education Transfer Curriculum (IGETC)
The Intersegmental General Education Transfer Curriculum (IGETC) is a pattern of courses that California community college students can follow to satisfy lower-division general education requirements at any California State University (CSU) or University of California (UC) campus. In addition, completion of IGETC qualifies students to receive a Certificate of Achievement from SBCC. Students who do not qualify for a full or partial certification of their IGETC before transfer will be required to complete the General Education pattern of the UC or CSU campus to which they transfer. Students should be aware that additional courses are often required to fully satisfy the General Education requirements of the particular UC or CSU campus to which they transfer. IGETC is not advisable for all transfer students. Students should meet with an academic counselor and visit www.sbcc.edu/transfercenter/whichge.php to determine the appropriate general education option for their transfer goal. A student who is initially enrolled at a UC and is returning to the same UC campus (after attending a community college) is considered a “readmit” and cannot use IGETC. However, students who initially enroll at a UC, attend a community college and return to a different UC campus, may be able to use IGETC, but should check with the campus they wish to attend. This restriction does not apply to students who have taken UC summer session or Extension classes only. For a complete description of approved IGETC Standards, Policies and Procedures, go to http://icas-ca.org/Websites/icasca/images/IGETC_Standards_version_1.6_final.pdf

Frequently Asked Questions About IGETC

1. What is IGETC? The Intersegmental General Education Transfer Curriculum (IGETC) is a pattern of courses that California community college students can follow to satisfy lower-division General Education requirements at any California State University (CSU) or University of California (UC) campus. Completion of IGETC qualifies students to receive a Certificate of Achievement from SBCC. Students who do not qualify for a full or partial certification of their IGETC before transfer will be required to complete the General Education pattern of the UC or CSU campus to which they transfer. Students should be aware that additional courses are often required to fully satisfy the General Education requirements of the particular UC or CSU campus to which they transfer.
2. **Is IGETC an admission requirement? No, IGETC is not advisable for all transfer students. Completion of IGETC is NOT an admission requirement for transfer to a UC or CSU, nor is it the only way to fulfill the lower-division General Education requirements of the CSU or UC prior to transfer. Note: UC Berkeley’s College of Letters and Science requires full completion of the IGETC or completion of the Essential Skills Requirement by the end of spring term for fall admission as selection criteria for admission. In general, all UC and CSU campuses highly recommend completion of IGETC for most majors, and some rank students for admission based on how closely they complete their lower-division General Education before transferring. However, completion of IGETC does NOT guarantee admission to a student’s major or campus of choice. Students should meet with an academic counselor to discuss UC and CSU admission requirements. Refer to [http://admission.universityofcalifornia.edu/transfer/preparing-admission/index.html](http://admission.universityofcalifornia.edu/transfer/preparing-admission/index.html).**

3. **Is it advisable for all transfer students to follow IGETC? No. IGETC will be most useful to students who want to keep their options open before making a final decision about transferring to a particular UC or CSU campus. Some students may be better served by taking courses to fulfill CSU's General Education/breadth requirements or those of a particular UC or CSU campus. In general, students who are pursuing majors that require extensive lower-division preparation for admission to the major (such as Engineering or other sciences) should not use IGETC (see “IGETC Considerations” at [http://admission.universityofcalifornia.edu/transfer/general-education-igetc/igetc/igetc-campus-guidance/index.html](http://admission.universityofcalifornia.edu/transfer/general-education-igetc/igetc/igetc-campus-guidance/index.html) for additional information). Students pursuing these majors are normally advised to complete as much preparation for their major as possible before transfer. Students should meet with an academic counselor to discuss major preparation required for their campus and refer to [www.assist.org](http://www.assist.org) for further information on major requirements. A student who is initially enrolled at a UC and is returning to the same UC campus (after attending a community college) is considered a “readmit” and cannot use IGETC. However, students who initially enroll at a UC, attend a community college and return to a different UC campus, may be able to use IGETC, but should check with the campus they wish to attend. This restriction does not apply to students who have taken UC summer session or Extension classes only.**

4. **Must the entire IGETC pattern be completed prior to transfer? No. However, to be eligible for full IGETC certification, students MUST complete all IGETC requirements before enrolling at a UC or CSU campus. Partial IGETC certification is defined as completing all but one (1) OR two (2) courses on the IGETC pattern. The student may be "partially certified" and complete the missing courses after transfer in a way that is acceptable to the receiving institution. Warning: Students need Areas 1 and 2 completed to meet minimum transfer requirements. Therefore, partial certification that acknowledges a deficiency in Area 1 and/or 2 may also indicate a student does not meet minimum transfer requirements. Note: Refer to question 2 above for UC Berkeley’s College of Letters and Science admission requirements.**

5. **May coursework completed at other institutions be used to certify a student's completion of IGETC? Yes. However, only courses completed at regionally-accredited institutions can be used under the following conditions: (1) Coursework from other California community colleges (CCC) will be placed in the IGETC category listed by that campus. Courses must have been on that college’s IGETC list when the courses were completed. Check the ASSIST website at www.assist.org or [http://articulation.sbcc.edu/IGETC/IGETC.pdf](http://articulation.sbcc.edu/IGETC/IGETC.pdf) for IGETC-approved courses from California community colleges. (2) Students transferring from institutions outside of the California community college system may have courses certified for IGETC only if an equivalent course is taught at a CCC. Such courses would be placed in the same IGETC category as the equivalent CCC course. Please consult with a counselor. (3) Courses taken at foreign institutions are not permitted for certification on the IGETC.**

6. **Is there a minimum grade required in all courses used for IGETC certification? Yes. IGETC courses must be completed with a grade of "C" (2.0) or better (a "C-minus" cannot be used). A grade of Credit or Pass may be used if the college’s policy states it is equivalent to a grade of “C” (2.0) or better.**
7. Can a course be used to satisfy more than one subject area? No. Even though a course may be listed in more than one area on IGETC, a course may only be counted in one area (the only exception is an advanced course that meets Area 6A Language Other Than English). However, courses used for IGETC can also count toward preparation for major requirements, except for individual CSU campus restrictions.

8. Can Advanced Placement (AP) scores be applied to IGETC? Yes. AP scores of 3, 4 or 5 can be used to satisfy any IGETC subject area except the Critical Thinking/English Composition or the Oral Communication requirements (Areas 1B & C). Each AP score can only be used as one course. However, more than one AP score can be used in each area except Area 1. Refer to the chart available at http://articulation.sbcc.edu/IGETC/IGETC.pdf for a list of approved AP scores and the corresponding IGETC area credit.

9. Can International Baccalaureate (IB) scores be applied to IGETC? Yes. IB scores of 5, 6 or 7 can be used to satisfy certain IGETC subject areas. Each IB score can only be used as one course. However, more than one IB score can be used in each area. Refer to the chart available at http://articulation.sbcc.edu/IGETC/IGETC.pdf for a list of approved IB scores and the corresponding IGETC area credit.

10. Is certification of IGETC completion automatic? No. Certification of IGETC must be requested at the SBCC Transfer Center (SS-140) after the student completes the IGETC requirements. Certification applications may be obtained from the Transfer Center (SS140) or at http://articulation.sbcc.edu/IGETC/CSUGEApplication.pdf and must be submitted to the Transfer Center. Certification will not be made when courses are still in progress or before grades are known. Certification of IGETC is the responsibility of the last California community college a student attends prior to transfer. Students must attach their official transcripts from other colleges to their request for IGETC certification unless they have already submitted an official copy to SBCC’s Admissions & Records Office.

11. Is there a minimum unit value per course? Yes. All courses must have a minimum unit value of 3 semester or 4 quarter units.

When combining quarter and semester unit values within an IGETC area, units should be converted to either all quarter or all semester units, whichever best meets the minimum unit requirement for that area.

American History and Institutions
Requirement for UCSB:
UCSB is one of the UC campuses that require a college-level American History and Institutions course. Current courses at SBCC which satisfy this requirement are: AJ 101, 105, 245; ART 106; ASAM 101, 102; BLST 101, 102, 102H, 103; CHST 101, 102, 103, 121; ENG 225, 226, 226H; ENV 101, 101H, 107; HIST 101, 102, 102H, 110, 110H, 111, 112, 114, 114H; NATA 101, 102; POLS 101, 104, 106H, 151, 151H; SOC 107, 109. Any of these courses may be used to meet UCSB’s American History and Institutions Requirement, as well as a requirement for IGETC. There are other options available to students to satisfy this requirement (see counselor).

Santa Barbara City College
2016-2017 IGETC Courses
IGETC requirements for Santa Barbara City College are also available on the ASSIST website, www.assist.org. IGETC represents approximately 35-40 units of the 60 transferable units required for UC/CSU transfer admissions.

Key to Codes: # Designates courses listed in more than one area but can only be counted in one area.

Area 1 — English Communication
• CSU — 3 courses required, one from each group below.
• UC — 2 courses required, one each from Group A and Group B.

Group A: English Composition — 1 course, 3 semester units or 4-5 quarter units
ENG 110 or 110GB (before Spring 15) or 110H

Group B: Critical Thinking-English Composition — 1 course, 3 semester units or 4-5 quarter units
PHIL 111, 110 (Summer 94-Summer 98) or
ENG 235# (Fall 10 & after); ENG 111#, 111GB (before Spring 15), 111HG (before Spring 15);
PHIL 111, 110 (Summer 94-Summer 98) or
ENG 112 or 112HR and PHIL 205 or COMM 235

Only if one course was completed prior to Fall 1993
Group C: Oral Communication (CSU requirement only)
— 1 course, 3 semester units or 4-5 quarter units
COMM 121 (before Summer 93 or Fall 98 & after),
121H (Spring 03 & after), 122 (Fall 14-Summer 17),
131, 131H, 141, 235# (Fall 10 & after)

Area 2A — Mathematical Concepts
and Quantitative Reasoning:
1 course, 3 semester units or 4-5 quarter units.
CS 108, 143 (before Fall 15); MATH 114, 116 (Fall
97-Summer 98), 117, 117H (Spring 92 & after), 120
(Spring 95 & after), 125 (before Fall 99), 130, 131,
137, 138, 140 (before Fall 00), 141 (before Fall 01),
150, 160, 200 (before Fall 97 or Spring 07 & after), 210
(before Fall 96 or Spring 07 & after), 220 (before Fall
96 or Spring 07 & after), 250 (Spring 96-Spring 07),
260 (Spring 96-Fall 07); PSY 150 (Spring 97 & after)

Area 3 — Arts and Humanities
3 courses, with at least 1 course from 3A: Arts &
1 course from 3B: Humanities, 9 semester units or
12-15 quarter units.

3A: Arts:
ART 101, 102A (Fall 01 & after), 102B (Spring 02 &
after), 103, 103H, 104, 104H, 105 (before Summer 01),
106, 107 (before Fall 12), 108, 109 (before Fall 15),
110, 111, 112, 113 (before Spring 08 or Fall 15 & after),
114, 145 (Spring 04-Fall 07), 210, 211, 213A (before
Fall 12), 213B (before Fall 12), 215, 216, 217 (before
Fall 12); BLST 119 (before Summer 99), 130, 131
(Spring 99 & after), 160 (Spring 93 & after); ENG 242
(Fall 94 & after), 260 (before Fall 97); FS 101 (Spring
99 & after), 101H, 104 (Spring 98 & after), 107, 112A,
113, 115# (Spring 03 & after), 116#, 118# (Spring 03
& after), 19#, 120, 121#; MUS 104A, 110, 110H, 112,
114A, 114B, 115, 118, 119; NATA 112; PE 250 (Fall
03 & after); TA 103, 103GB (before Fall 09), 106, 107,
108, 120, 160 (Spring 93 & after)

3B: Humanities:
ASL 102 (Spring 01 & after), 103, 104, 125;
ARBC 102 (Spring 06 & after); ASAM 101# (Fall 08
& after), 102# (Fall 08 & after); BLST 102# (Fall 15 &
after), 102H#, 113; CHST 101# (Fall 14 & after), 113,
114, 115; CHIN 102 (Fall 93-Summer 98 or Spring
05 & after), 103; ENG 111# (Fall 15 & after), 111H#
(Fall 15 & after), 200, 221, 221GB (before Spring 15),
222, 222GB (before Spring 15), 222H, 223 (before
Fall 02), 225, 225GB (before Spring 15), 226, 226H, 231,
231# (Spring 07-Fall 14), 232, 232GB (Spring 07-
Fall 14), 233 (before Fall 02), 235 (Fall 92-Summer 02),
236, 236GB (Spring 07-Summer 15), 237, 237GB
(Spring 07-Summer 15), 240, 241, 250 (before Fall 02),
251, 252 (before Fall 02), 261, 262, 262GB (Spring 07-
Summer 15); ENVS 112#; ETHS 101# (Spring 92 &
after), 101H#, 103#, 117 (before Fall 09 or Fall 14
& after), 121# 122#; FS 101 (before Fall 10), 105#, 110,
111, 112B, 114, 115# (Spring 03 & after), 116#, 117
(before Fall 09), 118# (Spring 03 & after), 119#, 121#;
FR 102 (Spring 98 & after), 103 (Spring 93 & after),
104 (Spring 93 & after); GER 102 (Spring 93 & after),
103 (Fall 93 & after), 104; HEBR 102 (Spring 06
& after); HIST 100# (before Spring 15), 101#, 102#,
102H#, 103#, 104#, 107#, 108#, 109# (before Spring 15),
110#, 110H#, 111#, 112#, 113H#, 114# (Spring 92 &
after), 114H#, 115#, 116# (before Spring 15), 117#
(before Spring 15), 120#, 121#, 122#, 127#, 130#
(before Spring 15), 131# (before Spring 15), 132#
(before Spring 15), 133#, 134#, 135#, 137#, 138#, 151#
(before Spring 15), 152# (before Spring 15);
ITAL 102 (Spring 93 & after), 103 (Fall 01 & after),
104, 150, 160; JAPN 102 (Spring 93 & after), 103
(Fall 98 & after), 104 (Fall 09 & after); KOR 102;
LATN 102 (Spring 06 & after); NATA 105#, 113;
PHIL 100, 100H, 101, 101H (Spring 00 & after), 102,
102H, 200, 201, 203 (Fall 93 & after), 204, 207A (Fall
14 & after); PS 105# (before Fall 95), 106# (before Fall
95); PHYS 104 (before Fall 14); POLS 132# (Spring 99
& after); RUS 102 (Fall 93-Fall 97): SPAN 102 (Spring
99 & after), 103 (Spring 93 & after), 104 (Spring 93 &
after), 132 (Fall 14 & after), 133, 134, 135 (Spring 05 &
after), 139 (Spring 05 & after), 146 (Fall 08 & after), 147
(Fall 08 & after), 150, 160

Area 4 — Social and Behavioral Sciences
3 courses from at least 2 disciplines, 9 semester
units or 12-15 quarter units.
AJ 101 (Spring 92 & after), 102 (Fall 07 & after), 104,
105, 107 (Fall 96 & after), 125 (Fall 08 & after), 245;
ANTH 102, 102H, 103, 104, 109 (Fall 92 & after), 110,
113; ASAM 101# (Fall 92 & after), 102# (Spring 92 &
after); BLST 101, 102 (Spring 92 & after), 102H#, 103;
CHST 101#, 102 (Spring 94 & after), 103, 121 (Fall 92
& after); COMM 101 (Spring 93 & after), 151, 171
(Spring 92 & after), 288 (Spring 97 & after), 289
(Spring 93 & after); ECE 102 (Spring 93 & after), 120
(Fall 07 & after); ERTH 142; ECON 101, 102, 103
(before Fall 98), 106 (Spring 92 & after), 108;
ENGR 100 (before Fall 16); ENVS 112#; ETHS 101# (Spring
92 & after), 101H#, 103#, 107, 109, 110, 120,
Area 5 — Physical and Biological Sciences
2 courses, 7-9 semester units or 9-12 quarter units with 1 course from 5A: Physical Science course and 1 from 5B: Biological Science course; at least 1 must include a laboratory (laboratory courses appear underlined).

5A: Physical Sciences:
BIOL 110# (Fall 92 & after), 110# (Fall 92 & after) +111# (before Fall 12), 110H# (Fall 92 & after) +111# (before Fall 12), 110H# (Fall 92 & after), 112, 112+141 (Spring 06 & after), 112HR (before Fall 97), 114 (before Fall 97), 114+115 (before Fall 97), 120, 122, 122+123 (Spring 04 & after), 124, 125, 126 (before Fall 15), 126 (Fall 15 & after), 140 (Spring 99 & after), 140 (Spring 99 & after) +141 (Spring 06 & after), 144 (Fall 15 & after), 150 (Fall 03 & after), 161, 172 (Fall 07-Summer 09); BMS 100, 107, 108, 109 (before Spring 15), 118 (Fall 15 & after), 127, 136 (before Fall 92 or Spring 00 & after), 157; BOT 100, 121, 122 (Spring 92 & after. Note: Botany 122 is a 3-unit lab science. Students MUST complete 4 units of Physical Science or an additional course in Biological Sciences to complete the units required in Area 5), 123, 129; EH 110 (Fall 15 & after); ENVS 110, 110+111; PSY 110 (Spring 92 & after); ZOOL 110, 122 (before Spring 03), 122, 122+123, 124, 124 (Fall 15 & after), 137 (Spring 06 & after), 140

5B: Biological Sciences:
ANTH 101, 101+101L, 101H, 101H+101L; BIOL 100, 101, 102, 103, 104, 104+105, 110# (Fall 92 & after).
(or 102H) may also satisfy this requirement but ONLY if both courses were completed before Fall 2004.

**US – 1: Historical Development of American Institutions and Ideals:**
- **ASAM** 101; **BLST** 101, 102 (before Fall 04); **CHST** 101; **ETHS** 101, 101H; **HIST** 100 (before Spring 15), 101, 102, 102H, 105HR (before Fall 03), 110, 114, 114H, 116 (before Spring 15); **NATA** 101

**US – 2: U.S. Constitution and Government:**
- **AJ** 245; **POLS** 101, 104, 106H (before Fall 04)

**US – 3: U.S. California State and Local Government:**
- **POLS** 101, 104, 106H (before Fall 04)

**Advanced Placement**
For complete information regarding Advanced Placement exams applicable to IGETC certification, see “Advanced Placement” in the Catalog Index.

**International Baccalaureate**
For complete information regarding International Baccalaureate exams applicable to IGETC certification, see “International Baccalaureate” in the Catalog Index.

**Certificate of Achievement in IGETC**
The Certificate of Achievement in IGETC at Santa Barbara City College is designed for transfer-bound students who complete their lower-division General Education requirements through the IGETC pattern prior to transferring to a University of California or a California State University campus.

**Certificate Requirements**
Students must complete all of the IGETC requirements as outlined above for a total of 35-40 semester units. All courses must be completed with a “C” grade or better or “Pass” (equivalent to a grade of “C” or better).

**II. California State University General Education Breadth**
The CSU General Education Breadth is a pattern of courses that community college students can use to satisfy lower division general/graduation requirements at any California State University (CSU) campus. Completion of these courses is not required for admission to CSU. However, students who do not complete all the lower division G.E. requirements will not be “fully certified.” As a result, these students will be subject to additional G.E. requirements after transfer.

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**Certification**
Certification must be requested after the student completes the CSU GE Breadth requirements. Certification applications may be obtained from the Transfer Center (SS-140) or at [http://articulation.sbcc.edu/csu/csugeapplication.pdf](http://articulation.sbcc.edu/csu/csugeapplication.pdf) and must be submitted to the Transfer Center. Certification will not be processed when courses are still in progress or before grades are known. Certification is the responsibility of the last California community college a student attends prior to transfer. Students must attach their official transcripts from other colleges to their request for certification unless they have already submitted an official copy to SBCC’s Admissions & Records Office.

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**CSU General Education Breadth Courses**
CSU General Education Breadth requirements for Santa Barbara City College are also available on the ASSIST website at [www.assist.org](http://www.assist.org).

Completion of the CSU General Education Breadth pattern represents approximately 39 units of the total transferable units required for CSU transfer admissions. **Important Note:** Courses listed in more than one area of CSU GE can only be counted in one area.

**Area A — English Language Communication and Critical Thinking**
(Minimum of 9 semester units or 12-15 quarter units with 1 course from each subarea A1, A2 and A3)

- **A1—Oral Communication (3 semester or 4 quarter units):** **COMM** 121 (Fall 98 & after), 121H (Fall 03 & after), 122 (Fall 14-Summer 17), 131, 131H, 141, 161, 162 (Fall 14-Summer 17), 235 (Fall 10 & after); **IS** 102 (Fall 14-Summer 17)
- **A2—Written Communication (3 semester or 4 quarter units):** **ENG** 110, 110GB (before Spring 15), 110H
- **A3—Critical Thinking (3 semester or 4 quarter units):** **COMM** 235; **ENG** 1111, 111GB (before Spring 15), 111H, 111HG (before Spring 15), 115 (before Fall 04), 115H (before Spring 15); **PHIL** 111, 205

**Area B — Scientific Inquiry and Quantitative Reasoning**
(Minimum of 9-12 semester units or 12-15 quarter units with at least 1 course from each subarea B1, B2 and B4, plus a laboratory activity related to one of the completed science courses. The laboratory science courses appear underlined.)
102 Transfer Curricula
B1—Physical Science (3 semester or 4 quarter units):
BIOL 110, 110+111 (before Fall 12), 110H, 142;
CHEM 101, 104, 155, 156, 211, 211+221, 212,
212+222; ERTH 101, 101H, 101+102, 101H+102,
106, 111, 111H, 111+111L, 111H+111L, 112, 112+112L,
113, 113+111L, 113+112L, 114, 114+111L, 114+112L,
115, 115+115L, 116, 122 (Spring 07 & after), 125, 126
(Spring 06 & after), 141, 141+141L, 151, 151+151L,
152 152+152L; ENVS 115, 115+115L, 116;
GEOG 101, 101+101L, 152, 152+152L; PHSC 103,
107; PHYS 101, 101H (before Fall 14), 101+101L,
102, 105, 106, 110, 111, 121, 122, 123
B2—Life Science (3 semester or 4 quarter units):
ANTH 101; 101+101L, 101H, 101H+101L BIOL 100,
101, 102, 103, 104, 104+105, 106 (before Spring 15),
110, 110+111 (before Fall 12), 110H, 112, 112+141
(Spring 06 & after), 120, 122, 122+123, 124, 125, 126
(before Fall 15), 126 (Fall 15 & after), 140, 140+141
(Spring 06 & after)144, 150, 161, 172 (Fall 07 & after);
BMS 100, 107, 108, 109 (before Spring 15), 117
(before Spring 15), 118 (Fall 05-Summer 15), 118 (Fall
15 & after), 127, 136, 146, 157; BOT 100, 121, 122,
123, 129; EH 110 (Fall 15 & after); ERTH 122 (Spring
07 & after); ENVS 110, 110+111; PSY 110; ZOOL 110,
122, 122+123, 124, 124 (Fall 15 & after), 137
(Spring 06 & after), 140
B3—Laboratory Activity: Associated with the course
taken to satisfy either B1 or B2. Laboratory courses
appear underlined in Areas B1 and B2.
B4—Mathematics/Quantitative Reasoning
(3 semester or 4 quarter units): CS 180, 143 (before
Fall 15); MATH 108 (Fall 08 & after), 117, 117H, 120,
130, 131, 137, 138, 150, 160, 200, 210, 220; PSY 150

Area C — Arts and Humanities

(Minimum of 9 semester units or 12-14 quarter units with
at least one course in the arts and one in the humanities)
C1—Arts — Arts, Cinema, Dance, Music, Theater:
ART 101, 102A, 102B, 103, 103H, 104, 104H, 106,
107 (before Fall 12), 108, 109 (before Fall 15), 110,
111, 112, 113 (before Spring 08 or Fall 15 & after), 114,
120, 130, 132, 210, 211, 213A (before Fall 12), 213B
(before Fall 12), 215, 216, 217 (before Fall 12);
BLST 111; CHST 130, 131, 160; ENG 242; FS 101,
101H, 104, 105, 107, 112A, 113, 115, 116, 118, 119,
120, 121; ID 103 (Fall 14 & after); MUS 100 (before
Fall 04), 102A, 104A, 110, 110H, 112, 114A, 114B, 115,
118, 119, 120A, 140A (before Fall 12), 146 (before Fall 12),
150 (before Fall 12), 152 (before Fall 12), 154 (before
Fall 12), 160 (before Fall 12), 162 (before Fall 12), 165,
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166, 167 (before Fall 12), 170 (before Fall 12), 174
(before Fall 12), 176 (before Fall 12), 177 (before Fall 12),
178 (before Fall 12); NATA 112; PE 150ABC (before
Fall 12), 151ABC (before Fall 12), 152ABC (before
Fall 12), 153 (before Fall 12), 250; TA 103, 103GB
(before Fall 09), 106, 107, 108, 111, 120, 121, 134,
136, 141 (before Fall 12), 151 (before Fall 12), 160, 175
(before Fall 12), 215
C2—Humanities — Literature, Philosophy, Languages
Other than English: ARBC 101, 102; ASAM 101
(Fall 08 & after), 102 (Fall 08 & after); ASL 101
(Spring 05 & after), 102, 103, 104, 125; BLST 102
(Fall 15 & after), 102H, 113; CHIN 101, 102 (Fall 05 &
after), 103; CHST 101 (Fall 14 & after), 113, 114, 115;
ECE 115; ENG 111 (Fall 15 & after), 111H (Fall 15
& after), 200, 221, 221GB (before Spring 15), 222,
222GB (before Spring 15), 222H, 225, 225GB (before
Spring 15), 226, 226H, 231, 231GB (Spring 07-Fall 14),
232, 232GB (Spring 07-Fall 14), 236, 236GB (before
Fall 15), 237, 237GB (before Fall 15), 240, 241, 251,
261, 262, 262GB (before Fall 15); ENVS 112;
ETHS 101, 101H, 103, 117 (before Fall 09 or Fall 14 &
after), 121, 122; FS 101, 101H (Fall 08 & after), 105,
110, 111, 112B, 114, 115, 116, 118, 119, 121; FR 101,
102, 103, 104, 132 (Spring 07 & after), 142 (Spring 07
& after); GER 101, 102, 103, 104; HEBR 101 (Spring
05 & after), 102 (Spring 05 & after); HIST 100, 101,
102, 102H, 103, 104, 107, 108, 109 (before Spring 15),
Spring 15), 117 (before Spring 15), 120, 121, 122, 127,
130 (before Spring 15), 131 (before Spring 15), 132
(before Spring 15), 133, 134, 135, 137, 138, 151 (before
Spring 15), 152 (before Spring 15); ITAL 101, 102,
103, 103AB (before Fall 14), 103CD (before Fall 14),
104, 104AB (before Fall 14), 104CD (before Fall 14),
150, 160; JAPN 101, 102, 103 (Fall 98 & after), 104
(Fall 09 & after); KOR 101, 102; LATN 101 (Spring 06
& after), 102 (Spring 06 & after); NATA 105, 113;
PHIL 100, 100H, 101, 101H, 102, 102H, 200, 201,
203, 204, 207A (Fall 14 & after); PHYS 104 (before
Fall 14); POLS 132; PSY 135; SPAN 101, 101AB
(before Fall 14), 101CD (before Fall 14), 102, 102AB
(before Fall 14), 102CD (before Fall 14), 103, 104, 132
(Spring 07 & after), 133, 134, 135 (Fall 05 & after),
136, 138, 139, 146, 147, 150, 160, 200

Area D — Social Sciences

(Minimum of 9 semester units or 12-15 quarter units
with courses taken in more than one discipline)


AJ 101, 102, 104, 105, 107, 125, 245, 255, 260, 265, 271; ANTH 102, 102H, 103, 104, 109, 110, 113, 121-126; ASAM 101, 102; BLST 101, 102, 102H, 103; CHST 101, 102, 103, 121; COMM 101, 151, 171, 288, 289; ECE 102, 120, 132 (Fall 12 & after); ECON 101, 102, 106, 108; ENGR 100 (before Fall 16); ENVS 112; ERTH 142; ETHS 101, 101H, 103, 109, 110, 120, 121, 122; GEOG 102, 104, 105, 106; GLST 101, 102, 110 (before Spring 15); HIST 100 (before Spring 15), 101, 102, 102H, 103, 104, 107, 108, 109 (before Spring 15), 110, 110H, 111, 112, 113H, 114, 114H, 115, 116 (before Spring 15), 117 (before Spring 15), 120, 121, 122, 127, 130 (before Spring 15), 131 (before Spring 15), 132 (before Spring 15), 133, 134, 135, 137, 138, 140 (before Spring 15), 150 (before Fall 16), 151 (before Spring 15), 152 (before Spring 15); NATA 101, 102, 103, 104, 105; POLS 101, 104, 106H (before Fall 04), 107, 110, 121, 122, 123 (before Spring 15), 124 (before Spring 15), 126, 130 (before Spring 15), 131, 132, 134H, 136, 151, 151H; PSY 100, 100H, 106, 115 (Fall 05 & after), 120, 125, 130 (Fall 13 & after), 135, 140, 145, 170, 175, 200; SOC 101, 101H, 103 (Fall 05 & after), 104, 106, 107, 109, 110, 113 (Fall 05 & after), 115, 118; SPAN 135, 136, 138, 139; SS 101

Area E—Lifelong Learning and Self-Development
(Minimum of 3 semester units or 4-5 quarter units)
ADC 120 (Spring 07 & after), 124 (Spring 07 & after), 130 (Spring 07 & after), 133 (Spring 07 & after);
BMS 128, 136; COMM 121 (before Fall 06); ECE 120 (Fall 05 & after); HE 101, 102, 111, 201, 213; IS 101 (Fall 14-Summer 17); PD 100, 110; PE 167; PSY 100 (Fall 12 & after), 100H (Fall 12 & after), 115 (Fall 05 & after), 125, 130, 140 (Fall 05 & after), 145; SOC 103, 106, 113

CSU Graduation Requirement in U.S. History, Constitution and American Ideals
This requirement may be met before or after transfer to the CSU. At the discretion of the CSU campus granting the degree, courses meeting this requirement may also be counted toward certification in general education. Students satisfy this CSU graduation requirement through coursework in three areas: US-1, US-2 and US-3. A student must take one course from each of the three areas. A student may use the same course to satisfy more than one area (US-1, US-2, US-3), if applicable.

Note: The combination of HIST 101 and 102 (or 102H) may also satisfy this requirement but ONLY if both courses were completed before Fall 2004.

US – 1: Historical Development of American Institutions and Ideals: ASAM 101; BLST 101, 102 (before Fall 04); CHST 101; ETHS 101, 101H; HIST 100 (before Spring 15), 101, 102, 102H, 110, 114, 114H, 116 (before Spring 15); NATA 101
US – 2: U.S. Constitution and Government:
AJ 245; POLS 101, 104, 106H (before Fall 04)
US – 3: U.S. California State and Local Government:
POLS 101, 104, 106H (before Fall 04)

Advanced Placement
For complete information regarding Advanced Placement exams applicable to CSU GE Breadth certification, see “Advanced Placement” in the Catalog Index.

International Baccalaureate
For complete information regarding International Baccalaureate exams applicable to CSU GE Breadth certification, see “International Baccalaureate” in the Catalog Index.

Certificate of Achievement in CSU General Education Breadth
The Certificate of Achievement in CSU General Education Breadth at Santa Barbara City College is designed for transfer-bound students who complete their lower-division General Education requirements through the CSU General Education Breadth pattern prior to transferring to a California State University campus.

Certificate Requirements
Students must complete all of the CSU General Education Breadth requirements as outlined above for a total of 39 semester units. The CSU General Education Breadth pattern must be completed with a cumulative grade point average of 2.0 or better to earn the certificate. “Pass” grades in courses used to satisfy the CSU General Education Breadth pattern are allowed.

III. Campus-Specific General Education Pattern
Students who do not complete IGETC or the CSU General Education Breadth pattern will be subject to the General Education pattern of the campus to which they transfer. Please refer to the respective UC, CSU or appropriate four-year institution campus catalog for a complete list of campus-specific General Education requirements.
Department and Course Descriptions

Departmental Offerings
This section includes descriptions of programs, departmental requirements and faculty listings.

Because the General Catalog must be prepared in advance of the college year it covers, it may not reflect recent changes in curricula, requirements and faculty listings. Because course descriptions are subject to change without notice, students should consult departments for current information. The Schedule of Classes is the final authority in regard to classes offered and instructors of record. For up-to-date class schedules see www.sbcc.edu/classes.

Some courses are not offered every semester. The Schedule of Classes indicates when and where courses are offered. Students planning their schedules should contact departments to determine when courses are offered.

Noncredit Education Offerings
Immediately following the credit department and course descriptions are the programs and course descriptions available in Noncredit Education. See pages 563-592.

Course Listings Key

Course Lettering Legend
1. The letters A through D designate courses which are part of a general topic taught during a semester or over several semesters (i.e., one course taken over two or more semesters, or three modules of one course taken in one semester).
2. The letter L denotes lab courses for which a related lecture course is required in concurrent registration, or as a prerequisite.
3. The letter H is used to designate Honors Program courses.

Prerequisites for courses are stated where applicable. A student may not enroll in a course for which he/she is not eligible. Courses without prerequisite listings have NO prerequisites.

Transfer Code Designation
Courses that transfer for unit value to California four-year public institutions are noted as follows:

<table>
<thead>
<tr>
<th>Course number</th>
<th>Course name</th>
<th>Semester units</th>
<th>Transfer codes</th>
</tr>
</thead>
<tbody>
<tr>
<td>225-226 — American Literature (3–3) — CSU, UC*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prerequisites: ENG 110 or 110H</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Course Advisories: ENG 111 or 111H</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hours: 54 lecture</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. **CSU**—California State University
2. **UC**—University of California
3. **UC**—Asterisk indicates a UC transfer limitation

For transferability of courses to the receiving institution’s graduation, General Education, pre-major and major requirements, check the requirements of the institution to which transfer is planned. Courses not transferable to one four-year college or university may be considered acceptable by other colleges or universities.

For the most current information regarding transferability of courses to the California State University, the University of California and independent colleges and universities, contact the Transfer Center, Room SS-140, or refer to www.assist.org.

Transfer Credit Limitation
Transfer credit limitations occur for some courses when taken in a particular sequence, or in combination with other courses. For those courses designated as having a transfer credit limitation, contact a counselor or the Transfer Center for specific limitations.
Accounting Education

Degrees, Certificates and Awards
Associate in Science: Accounting
Certificate of Achievement: Accounting/Assistant Bookkeeper, Level IV
Skills Competency Award: Bookkeeping
Department Award: Accounting Assistant/Bookkeeper, Level I
Department Award: Accounting Assistant/Bookkeeper, Level II
Department Award: Accounting Assistant/Bookkeeper, Level III

Program Description
Accounting courses provide the essential foundation needed to succeed in these career areas:

- **Management:** general management, financial management, budget management, assets management, controller, treasurer
- **Private Accounting:** general financial accounting, accounting information systems design, cost accounting, budgeting, taxation, internal auditing, data processing
- **Public Accounting—CPAs:** auditing, tax compliance and tax planning services, management advisory services, computerized accounting systems
- **Government Accounting**
- **Accounting Education:** teaching, research, consulting

Those interested in preparing for immediate employment or advancement should consider:

1. The Skills Competency Award in Bookkeeping that prepares students for working in the areas of entry-level bookkeeper (for small business, sole proprietorship) or accounting clerk (accounts payable or accounts receivable, under supervision of an accounting supervisor).
2. The Accounting Assistant/Bookkeeper Certificate that prepares students to be full-charge bookkeepers in businesses that have computerized or manual accounting systems; or
3. The Associate Degree in Accounting that prepares students for advanced academic work in accounting (transfer to four-year institutions), or for employment and/or promotion to more responsible positions in accounting or business.

Program Student Learning Outcomes

**Accounting Degree**

1. Use introductory managerial accounting concepts to make decisions within a business.
2. Apply generally accepted accounting principles to record common business transactions, to prepare simple financial statements, and to analyze the results of operations, cash flows and financial position as reported.
3. Calculate and explain the impact of alternate generally accepted accounting principles for financial ratio analysis and economic analysis.
4. Recognize the elementary business laws and the consequences of ignoring or not following legal business precepts and/or behaving unethically.
5. Use introductory level macroeconomics and microeconomics theories to estimate the domestic and global economic impact of conditions/situations on a given business organization.
6. Use computer technology and applications to record, report and analyze business transactions and their effects on operating, investing and financing activities.
7. Prepare financial reports and communiqués, using standard Business English.
8. Define elementary business management concepts.

**Accounting/Bookkeeper Certificate**

1. Use introductory managerial accounting concepts to make decisions within a business.
2. Apply generally accepted accounting principles to record common business transactions, to prepare simple financial statements, and to analyze the results of operations, cash flows and financial position, as reported.
3. Use computer technology and applications to record, report and analyze business transactions and their effects on operating, investing and financing activities.
5. Calculate and explain the impact of alternate generally accepted accounting principles for financial ratio analysis and economic analysis.
6. Define elementary business management concepts.

**Department Offices**

*Division: Business Education*

Melissa Moreno, *Dean*
(Wake Campus, Rm. 1, ext. 8284)

**Faculty and Offices**

Cornelia Alsheimer-Barthel, *Chair* (BC-206, ext. 4454)
Al Vera-Graziano (BC-207, ext. 2499)

**Requirements for AS Degree: Accounting**

The Associate Degree will be awarded upon completion of department and college requirements.

**Department Requirements (52-61 units)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 110</td>
<td>Introduction to Accounting</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 150</td>
<td>Intro to Accounting Software and Systems</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 230*</td>
<td>Financial Accounting</td>
<td>5</td>
</tr>
<tr>
<td>ACCT 240*</td>
<td>Managerial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>BUS 101</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>COMP 101</td>
<td>Introduction to Computer Applications</td>
<td>4</td>
</tr>
<tr>
<td>COMP 271</td>
<td>Business Communication</td>
<td>3</td>
</tr>
<tr>
<td>ECON 101</td>
<td>Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 101</td>
<td>Microeconomics</td>
<td>3</td>
</tr>
</tbody>
</table>
| ENG 110     | Composition and Reading or  
            | ENG 110GB — Composition and Reading or  
            | ENG 110H — Composition and Reading, Honors     | 3 |
| FIN 202     | Managerial Finance                               | 3     |
| MATH 107#   | Intermediate Algebra or  
            | MATH 111# — Intermediate Algebra for Math,  
            | Science and Business Majors                   | 4-5 |

*ACCT 1 (210) and 2 (220) will also satisfy these requirements.*

#Any math course higher than Intermediate Algebra will also satisfy this requirement.

**Controlled Electives: Choose at least 6 units from following electives:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
</table>
| BLAW 101    | Business Law or  
            | BLAW 110 — Legal Environment of Business         | 4 |
| BUS 103     | Business Mathematics                             | 3     |
| ECON 102    | Macroeconomics                                   | 3     |
| MGMT 102    | Leadership in Organizations                      | 3     |

**Controlled Electives: Choose at least 6 units from following electives:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 130</td>
<td>Payroll Accounting</td>
</tr>
<tr>
<td>ACCT 160</td>
<td>Accounting with Quickbooks</td>
</tr>
<tr>
<td>ACCT 215</td>
<td>Fundamentals of Income Tax</td>
</tr>
<tr>
<td>ACCT 280</td>
<td>Accounting Ethics</td>
</tr>
<tr>
<td>IBUS 102</td>
<td>Introduction to International Business</td>
</tr>
<tr>
<td>CIS 101</td>
<td>Introduction to Computers and Information Systems</td>
</tr>
<tr>
<td>ECON 106</td>
<td>International Economics</td>
</tr>
</tbody>
</table>

*Note: Each required course must be completed with a minimum grade of “C” or Pass.*

**College Requirements**

For complete information, see “Graduation Requirements” in the *Catalog* Index.

**Requirements for Department Award: Accounting Assistant/Bookkeeper, Level I**

**Department Requirements (18 units)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 110</td>
<td>Introduction to Accounting</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 230</td>
<td>Financial Accounting</td>
<td>5</td>
</tr>
<tr>
<td>BUS 103</td>
<td>Business Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>COMP 151AB</td>
<td>Beginning Computer Keyboarding</td>
<td>3</td>
</tr>
<tr>
<td>COMP 171</td>
<td>Business English</td>
<td>3</td>
</tr>
</tbody>
</table>

*A student must receive a “C” or better in each course.*

If two or more years have elapsed since ACCT 230 was taken, the candidate must pass a proficiency and currency test to earn the Department Award. A minimum of 6 units must be taken at SBCC. Please note that Accounting 110 is required for the Department Award. The course is not eligible for waiver as a result of completing ACCT 230. Satisfactory completion of Level I earns Accounting...
Assistant/Bookkeeper (Level I) Department Award and should enable holder to perform as an:
1. Entry-level Accounting Assistant/Bookkeeper, under supervision, for small proprietorships; or
2. Entry-level Accounting Clerk, under supervision, for medium or large proprietorships.

Requirements for Department Award:
Accounting Assistant/Bookkeeper, Level II
Department Requirements (29 units)
ACCT 110 — Introduction to Accounting ......................... 4
ACCT 230 — Financial Accounting .................................. 5
ACCT 240 — Managerial Accounting .......................... 4
BUS 103 — Business Mathematics .............................. 3
CIS 101 — Introduction to Computers and Information Systems or ................................................. 4
COMP 101 — Introduction to Computer Applications ......... 4
COMP 151AB — Beginning Computer Keyboarding ......... 3
COMP 171 — Business English ...................................... 3
COMP 271 — Business Communication .......................... 3

A student must receive a “C” or better in each course. If two or more years have elapsed since ACCT 230 was taken, the candidate must pass a proficiency and currency test to earn the Department Award.
A minimum of 6 units must be taken at SBCC.
Please note that Accounting 110 is required for the Department Award. The course is not eligible for waiver as a result of completing ACCT 230.

Satisfactory completion of Level II earns Accounting Assistant/Bookkeeper (Level II) Department Award and should enable holder to perform as an:
1. Entry-level Accounting Assistant/Bookkeeper, under supervision, for small partnerships or corporations; or
2. Entry-level Accounting Clerk or Accounting Data Processor, under supervision, for medium or large proprietorships, partnerships or corporations; or

Requirements for Department Award:
Accounting Assistant/Bookkeeper, Level III
Department Requirements (37 units)
ACCT 110 — Introduction to Accounting ......................... 4
ACCT 150 — Intro to Accounting Software and Systems .... 4
ACCT 230 — Financial Accounting .................................. 5
ACCT 240 — Managerial Accounting .......................... 4
BUS 103 — Business Mathematics .............................. 3
CIS 101 — Introduction to Computers and Information Systems or ................................................. 4
COMP 101 — Introduction to Computer Applications ......... 4
COMP 109 — Microsoft Excel ........................................ 4
COMP 151AB — Beginning Computer Keyboarding ......... 3
COMP 171 — Business English ...................................... 3
COMP 271 — Business Communication .......................... 3
Optional:
ACCT 130** — Payroll Accounting .................................. 4

**Satisfactory completion of this course earns designation of “Payroll Specialist.”
A student must receive a “C” or better in each course.

A minimum of 6 units must be taken at SBCC.
Please note that Accounting 110 is required for the Department Award. The course is not eligible for waiver as a result of completing ACCT 230.
Satisfactory Completion of Level III earns Accounting Assistant/Bookkeeper (Level III) Department Award. Depending on practical experience, should enable holder to perform as an:
1. Accounting Assistant/Bookkeeper, under minimum or little supervision (depending on experience), for proprietorships, small partnerships, or small corporations, using manual or computerized accounting systems; or
2. Accounting Clerk or Accounting Data Processor, under minimum or little supervision (depending on experience), for small proprietorships, partnerships or corporations.

Requirements for Certificate of Achievement:
Accounting Assistant/Bookkeeper, Level IV
Department Requirements (43-44 units)
ACCT 110 — Introduction to Accounting ......................... 4
ACCT 150 — Intro to Accounting Software and Systems .... 4
ACCT 230 — Financial Accounting ........................................5
ACCT 240 — Managerial Accounting ......................................4
BUS 103 — Business Mathematics .......................................3
CIS 101 — Introduction to Computers and
  Information Systems or ........................................4
  COMP 101 — Introduction to Computer Applications .....4
COMP 109 — Microsoft Excel ...........................................4
COMP 111 — Microsoft Access or .................................4
  ACCT 160 — Accounting with QuickBooks .....................3
COMP 151AB — Beginning Computer Keyboarding ...........3
COMP 171 — Business English .........................................3
COMP 271 — Business Communication ...........................3
MGMT 101 — Introduction to Management or ..................3
  MGMT 102 — Leadership in Organizations ....................3

A minimum of 6 units must be taken at SBCC. Please note that Accounting 110 is required for the Certificate of Achievement. The course is not eligible for waiver as a result of completing ACCT 230.

ACCT 210 will also satisfy requirement. However, if two or more years have elapsed since ACCT 230 (or 210) was taken, then the candidate must pass a proficiency test to earn the Certificate of Achievement.

Depending on practical experience, this Certificate should enable holder to perform as a:
1. Full-Charge Bookkeeper (depending on experience) for proprietorships, small partnerships or small corporations, using manual or computerized accounting systems; or
2. Accounting Clerks Supervisor (depending on experience) or Accounting Data Processors Supervisor (depending on experience) for proprietorships, small partnerships or small corporations.

Requirements for Skills Competency Award:
Bookkeeping

Department Requirements (13 units)
ACCT 110 — Introduction to Accounting ..............................4
BUS 103 — Business Mathematics .......................................3
COMP 151AB — Beginning Computer Keyboarding ...........3
COMP 171 — Business English .........................................3

Students must complete the above courses with a grade of “C” or higher or credit in all courses.

Tutorial Opportunities
Tutors are provided for Accounting students and are available to help students five days a week. Outstanding students in Business and Accounting are selected to serve as paid tutors.

Program Cost and Outcome
For planning purposes, the webpage below provides information on the cost of attendance, program length (assuming a student attends full-time), financing options and historical student completion rates:
www.sbcc.edu/financialaid/gainfulemployment/
  Accounting%20AssistantBookkeeper.htm

Accounting Education Courses

ACCT 110 — Introduction to Accounting
(4) — CSU
Skills Advisories: MATH 4 and Eligibility for
ENG 110 or 110H
Hours: 72 lecture

Basic theory of accounts. Principles of sole proprietorship, including concepts of how to keep manual or computerized financial records for small businesses.

ACCT 130 — Payroll Accounting
(4) — CSU
Prerequisites: ACCT 110 or 230
Skills Advisories: MATH 4 and Eligibility for ENG 110
  or 110H
Hours: 72 lecture

Study and application of payroll accounting concepts, procedures, and related internal controls. Specialized areas: Federal and state payroll taxes, withholdings, preparation and filing of governmental forms, record keeping systems and procedures.
ACCT 150 — Introduction to Accounting Software and Systems
(4) — CSU
Prerequisites: ACCT 110 or 230
Skills Advisories: MATH 4 and Eligibility for ENG 110 or 110H
Hours: 72 lecture
Review of computer application software programs used in financial and managerial accounting. Topics include implementing and using computerized accounting programs, spreadsheet software, and managerial systems relating to corporate culture and business ethics.

ACCT 160 — Accounting with QuickBooks
(3) — CSU
Prerequisites: ACCT 110 or 230
Skills Advisories: MATH 100
Hours: 54 lecture
Review and application of accounting principles, using QuickBooks computer software. Topics include setting up business books and working with inventory, accounts receivable, accounts payable, payroll, financial statements and reports.

ACCT 170 — Accounting with MS Dynamics
(2.5) — CSU
Prerequisites: ACCT 110 or 230
Corequisites: COMP 170
Skills Advisories: MATH 1 and Eligibility for ENG 110 or 110H
Hours: 45 lecture
Introduction to Microsoft Great Plains Dynamics, a computerized accounting application which is widely used by small, medium and large-sized businesses and accounting firms. Topics include computerized general ledger and payroll accounting, accounting applications for accounts receivable, accounts payable, fixed assets, inventory, payroll, income tax preparation and financial statements.

ACCT 215 — Fundamentals of Income Tax
(4) — CSU
Skills Advisories: MATH 4 and Eligibility for ENG 110 or 110H
Hours: 72 lecture
Study and application of federal income tax law as it relates to individuals and small businesses (proprietorships). Partnerships, corporation and fiduciary tax principles. Differences between federal and state laws noted.

ACCT 230 — Financial Accounting
(5) — CSU, UC
Skills Advisories: MATH 4 and Eligibility for ENG 110 or 110H
Course Advisories: ACCT 110
Hours: 90 lecture
Application of financial accounting principles and procedures for corporations. Preparation, use and analysis of financial statements. Includes internal controls of an accounting system, accounting for cash, receivables, inventories, property and equipment, intangibles, investments, current and long-term liabilities, contributed capital and retained earnings.

ACCT 240 — Managerial Accounting
(4) — CSU, UC
Prerequisites: ACCT 230
Course Advisories: ACCT 110
Skills Advisories: MATH 4 and Eligibility for ENG 110 or 110H
Hours: 72 lecture
Study and application of managerial accounting concepts and procedures. Includes various costing systems, cost behavior analysis, cost-volume-profit analysis, budgeting, variance analysis, relevant costs, capital budgeting decisions.

ACCT 280 — Accounting Ethics and Leadership
(3) — CSU
Prerequisites: ACCT 230
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Regulatory review of accounting civil law, regulations and standards specific to the practice of accounting in the state of California. Leadership skills needed to be leaders in the accounting community, with a commitment to ethics, excellence and best practices.
Addictive Disorders Counseling

Degrees, Certificates and Awards
Associate in Arts: Alcohol and Drug Counseling
Certificate of Achievement: Alcohol and Drug Counseling
Certificate of Achievement: Post-Professional Practice in Alcohol and Drug Counseling

Program Description
The Addictive Disorders Counseling Program is designed to prepare students to work in the field of addictions counseling. Both a Certificate of Achievement and Associate Degree are available. The program provides students with the education and training to develop paraprofessional expertise and to qualify for employment as entry-level addictions counselors. A required fieldwork component offers students invaluable hands-on experience working at a facility dedicated to the treatment of alcohol and drug addiction.

Licensed clinicians seeking expertise in addictions can complete the new non-fieldwork based Certificate of Achievement: Post-Professional Practice in Addictive Disorders Counseling.

Program Student Learning Outcomes
1. Implement a systematic approach to screening and assessment of individuals thought to have a substance use disorder and who are being considered for addiction-related services in a crisis situation.
2. Use a collaborative process in which professionals and the client develop a written document that identifies important treatment goals within measurable, time-sensitive action steps toward achieving those goals with expected outcomes.
3. Employ the administrative, clinical and evaluative activities that bring the client, treatment services and other resources together to focus on the issues and needs identified in the treatment plan.
4. Facilitate the client’s progress toward mutually determined treatment goals and objectives, including counseling methods that are sensitive to individual client needs and to the influence of significant others, as well as the client’s cultural and social norms.
5. Present clients, families, significant others and community groups with information on risks related to psychoactive substance use, as well as available prevention, treatment and recovery resources.
6. Record the screening and intake process, assessment, treatment plan, clinical reports and progress notes, discharge summaries and other client-related data.
7. Adhere to the obligations of an addiction counselor within accepted ethical and behavioral standards of conduct and professional development.

Department Offices
Division: Health/Human Services
Alan Price, Dean (A-218, ext. 3044)

Faculty and Offices
Gordon Coburn, Chair (ECOC-3, #5, ext. 3021)

Requirements for AA Degree: Alcohol and Drug Counseling
The Associate Degree will be awarded upon completion of both department and college requirements.

Department Requirements (38-39 units)
ADC 120*+ — Alcohol and Other Drugs: History, Dynamics and Models .............................................3
ADC 121*+ — Basic Interviewing and Counseling Skills .............................................3
ADC 122* — Pharmacological and Physiological Effects of Alcohol and Other Drugs ..............................3
ADC 123*+ — Group Treatment ..................................................................................3
ADC 124* — Chemical Dependency and the Family .............................................3
ADC 125* — Co-Occurring Disorders I: Recognition and Referral ..................................................3
ADC 126* — Treatment and Case Management of the Chemical-Dependent Individual .........................4
ADC 152 — Clinical Process ..................................................................................3
ADC 290 — Work Experience in ADC ........................................................................4
PSY 100 — General Psychology or ........................................................................3
PSY 100H — General Psychology, Honors ........................................................................4

* Acceptable substitutions are as follows: ADC 100 will substitute for ADC 120; ADC 101 will substitute for ADC 121; ADC 102 will substitute for ADC 122; ADC 107 will substitute for ADC 123; ADC 108 will substitute for ADC 124; ADC 112 will substitute for...
ADC 125; and ADC 105 and 106 or ADC 106 and 116 will substitute for ADC 126.

+ADC 120 and 121 should be taken before other ADC counseling courses (i.e., ADC 123, 124, 126).

**Required Alcohol and Drug Counseling Elective Course**

*Choose any one of the following combinations of courses for a total of 3 units:*

ADC 111 — Substance Abuse and Society ........................................ 2
ADC 117 — Motivational Interviewing ............................................. 1
ADC 118 — Relationships in Recovery ............................................ 1
ADC 119 — Finding Your Authentic Voice ....................................... 1
ADC 127 — Complementary Treatment: Auricular Acupuncture, Nutrition and Amino Acid Therapy .... 1
ADC 128 — Introduction to the Twelve Steps of Alcoholics Anonymous ........................................ 1
ADC 129 — Emotional Balance and Mindfulness in Recovery ................. 3
ADC 130# — Diversity and Cultural Issues in Counseling: Identity, Expression and Addiction .......... 3
ADC 131# — Attitudes, Motivation and Behavior Change .................... 3
ADC 132# — Substance Abuse and Adolescents ................................ 3
ADC 133# — Anger Management and Family Violence .......................... 3
ADC 134# — Co-Occurring Disorders II: Management and Treatment ........................................................................ 3
ADC 136 — Eating Disorders I ......................................................... 1
ADC 137 — Conflict Resolution ....................................................... 1
ADC 138 — Multiple Sexual Addictions ............................................ 1
ADC 139 — Introduction to Process Addictions ................................... 3
ADC 140 — Recovery through Movement ......................................... 2
ADC 141 — Integral Treatment Modalities ........................................ 1

#Acceptable substitutions are as follows: ADC 103 will substitute for ADC 130; ADC 109 will substitute for ADC 131; ADC 110 will substitute for ADC 132; ADC 113 or ADC 114 will substitute for ADC 133; and ADC 115 will substitute for ADC 134.

**Required Behavioral Science elective**

*Choose any one of the following courses:*

PSY 130 — Personality Dynamics and Effective Behavior .......................... 3
PSY 170 — Abnormal Psychology ................................................... 3

SOC 101 — Introduction to Sociology or ........................................... 3
SOC 101H — Introduction to Sociology, Honors ................................. 4
SOC 103 — Marriage, Family and Intimacy ....................................... 3
SOC 104 — Social Psychology ....................................................... 3

**College Requirements**

For complete information, see “Graduation Requirements” in the *Catalog Index.*

**Requirements for Certificate of Achievement: Alcohol and Drug Counseling**

**Department Requirements (38-40 units)**

ADC 120*+ — Alcohol and Other Drugs: History, Dynamics and Models ........................................... 3
ADC 121*+ — Basic Interviewing and Counseling Skills .......................... 3
ADC 122* — Pharmacological and Physiological Effects of Alcohol and Other Drugs ........................................... 3
ADC 123*+ — Group Treatment ..................................................... 3
ADC 124* — Chemical Dependency and the Family ............................. 3
ADC 125* — Co-Occurring Disorders I: Recognition and Referral .......................... 3
ADC 126* — Treatment and Case Management of the Chem-Dependent Individual ........................................... 4
ADC 152 — Clinical Process ......................................................... 3
ADC 290 — Work Experience in ADC ............................................ 4
PSY 100 — General Psychology or .............................................. 3
PSY 100H — General Psychology, Honors ..................................... 4

*Acceptable substitutions are as follows: ADC 100 will substitute for ADC 120; ADC 101 will substitute for ADC 121; ADC 102 will substitute for ADC 122; ADC 107 will substitute for ADC 123; ADC 108 will substitute for ADC 124; ADC 112 will substitute for ADC 125; and ADC 105 and 106 OR ADC 106 and 116 will substitute for ADC 126.

+ADC 120 and 121 should be taken before other ADC counseling courses (i.e., ADC 123, 124, 126).

**Required Alcohol and Drug Counseling Elective Course**

*Choose any one of the following combination of courses for a total of 3 units:*

ADC 111 — Substance Abuse and Society ........................................ 2
ADC 117 — Motivational Interviewing ............................................. 1
ADC 118 — Relationships in Recovery ........................................ 1
ADC 119 — Finding Your Authentic Voice .................................... 1
ADC 127 — Complementary Treatment: Auricular Acupuncture, Nutrition and Amino Acid Therapy ........................................ 1
ADC 128 — Introduction to the Twelve Steps of Alcoholics Anonymous .............................................................. 1
ADC 129 — Emotional Balance and Mindfulness in Recovery ............................................................ 3
ADC 130# — Diversity and Cultural Issues in Counseling: Identity, Expression and Addiction ........................................ 3
ADC 131# — Attitudes, Motivation and Behavior Change .......... 3
ADC 132# — Substance Abuse and Adolescents ........................................... 3
ADC 133# — Anger Management and Family Violence .......... 3
ADC 134# — Co-Occurring Disorders I: Mgmt and Treatment .............................................................. 3
ADC 136 — Eating Disorders I ........................................................ 1
ADC 137 — Conflict Resolution .................................................... 1
ADC 138 — Multiple Sexual Addictions ........................................... 1
ADC 139 — Introduction to Process Addictions ........................................... 3
ADC 140 — Recovery through Movement ........................................... 2
ADC 141 — Integral Treatment Modalities ........................................... 1

#Acceptable substitutions are as follows: ADC 103 will substitute for ADC 130; ADC 109 will substitute for ADC 131; ADC 110 will substitute for ADC 132; ADC 113 or ADC 114 will substitute for ADC 133; and ADC 115 will substitute for ADC 134.

**Required Behavioral Science elective**

*Choose any one of the following courses:*

PSY 130 — Personality Dynamics and Effective Behavior ..3
PSY 170 — Abnormal Psychology .................................................. 3
SOC 101 — Introduction to Sociology or ........................................... 3
SOC 101H — Introduction to Sociology, Honors ................. 3-4
SOC 103 — Marriage, Family and Intimacy ........................................... 3
SOC 104 — Social Psychology ....................................................... 3

**Requirements for Certificate of Achievement:**

**Post-Professional Practice in Alcohol and Drug Counseling**

**Department Requirements (16 units)**

ADC 120* — Alcohol and Other Drugs: History, Dynamics and Models .............................................................. 3
ADC 122* — Pharmacological and Physiological Effects of Alcohol and Other Drugs .............................................................. 3
ADC 124* — Chemical Dependency and the Family .......... 3
ADC 125* — Co-Occurring Disorders I: Recognition and Referral .............................................................. 3
ADC 126* — Treatment and Case Management of the Chemical-Dependent Individuals .............................................................. 4

* Acceptable substitutions are as follows: ADC 100 will substitute for 120; 102 will substitute for 122; 108 will substitute for ADC 124; 112 will substitute for 125; and 105 and 106 or 106 and 116 will substitute for 126.

Students must complete the above courses with a grade of “C” or higher or pass in all courses.

**Planning a Program of Study**

Students are encouraged to work with an SBCC counselor in planning a sequence of courses and learning about General Education requirements. Adjunct faculty teaching in the Addictive Disorders Counseling Program are excellent resources for exploring career options in this field. The college’s Career Center can also provide information about this type of work.

**Program Cost and Outcome**

For planning purposes, webpages below provide information on the cost of attendance, program length (assuming a student attends full-time), financing options and historical student completion rates:

**Addictive Disorders Counseling**

[www.sbcc.edu/financialaid/gainfulemployment/AddictiveDisordersCounseling.htm](http://www.sbcc.edu/financialaid/gainfulemployment/AddictiveDisordersCounseling.htm)

**Post-Professional Practice in Addictive Disorders Counseling**

[www.sbcc.edu/financialaid/gainfulemployment/PostProfessionalPracticeinAlcoholDrugCounseling.htm](http://www.sbcc.edu/financialaid/gainfulemployment/PostProfessionalPracticeinAlcoholDrugCounseling.htm)
Addictive Disorders Counseling Courses

ADC 111 — Substance Abuse and Society
(2) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 36 lecture
Study of the impact of drugs and alcohol on American society and responses to it from the government’s efforts to reduce illegal trafficking and crime, and to the efforts of communities to promote education, prevention, treatment and rehabilitation. Topics include the cost of substance abuse; failure of the war on drugs; current trends in drug diversion/treatment-based specialty courts; the efficacy of different treatment modalities; and the effects of substance abuse on minorities, seniors and women.

ADC 117 — Motivational Interviewing
(1) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 18 lecture
Explores motivation-enhancing techniques in working with clients’ natural ambivalence to change addictive behaviors and making changes to increase participation in recovery and positive treatment outcomes.

ADC 118 — Relationships in Recovery
(1) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 18 lecture
Examines the social associations, connections or affiliations between two or more people in the recovery process from chemical dependency. Topics include personal relationships, intimate relationships and professional relationships.

ADC 119 — Finding Your Authentic Voice
(1) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 18 lecture
Orients counselors to the paradoxical treatment found in 12-step programs, emphasizing the necessity to develop awareness of personal process and authentic self through supported risk-taking. Singing to an audience begins the transformation of self-consciousness to full authentic presence.

ADC 120 — Alcohol and Other Drugs: History, Dynamics and Models
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Study of psychoactive substance use, abuse and dependence from social, historical and current perspectives, including biological, psychological and socio-cultural models of addiction and dependence. Explores the impact of alcohol and drugs on American society and the dynamics of chemical dependency. Other topics include the cost of substance abuse, different treatment modalities and philosophies, and the effects of substance abuse on minorities, seniors and women.

ADC 121 — Basic Interviewing and Counseling Skills
(3) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Counseling as a collaborative process that facilitates the client’s progress towards mutually determined goals and objectives. Presents skills fundamental to effective interviewing and counseling, including how to deal constructively with clients whose behavior is unpleasant or difficult. Students learn dynamics of behavior and relationships, and develop a conceptual model for observing and assessing patterns of personal interactions. Skills learned may be applied in counseling, mediation, negotiation and interpersonal settings.

ADC 122 — Pharmacological and Physiological Effects of Alcohol and Other Drugs
(3) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Survey of the medical and pharmacological aspects of alcohol and psychoactive substances. Includes theories and research pertaining to chemical dependency, pharmacological actions of drugs, drug classifications, medical and physical effects of alcohol and other drugs, the potential for abuse and dependency, and how psychoactive substances affect the mind and body.

ADC 123 — Group Treatment
(3) — CSU
Corequisites: Prior or concurrent enrollment in ADC 121
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Examines the theory and practice of group therapy as a primary modality in the treatment of substance
**ADC 124 — Chemical Dependency and the Family**  
(3) — CSU  
Skills Advisories: Eligibility for ENG 110 or 110H  
Course Advisories: ADC 120 and 121  
Hours: 54 lecture  

Presents theory and clinical practice designed to provide a basic understanding of the family dynamics involved when a member has a chemical dependency problem. Therapeutic techniques to facilitate effective intervention strategies for the family as a system and individuals within that system.

**ADC 125 — Co-Occurring Disorders I: Recognition and Referral**  
(3) — CSU  
Skills Advisories: Eligibility for ENG 110 or 110H  
Course Advisories: ADC 120 and 121  
Hours: 54 lecture  

Explores historical and current theories dealing with clients who have both a substance abuse and co-existing psychiatric disorder. Includes concepts, definitions, epidemiology, historical divisions of the fields of substance abuse and psychiatry, funding, clinical implications, recognition, and assessment and referral of clients.

**ADC 126 — Treatment and Case Management of the Chemically-Dependent Individual**  
(4) — CSU  
Prerequisites: ADC 121  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 72 lecture  

Theories, skills, techniques and legal/ethical practices fundamental to bio-psycho-social therapy for chemically-dependent individuals. Includes eliciting an appropriate case history; assessment and diagnosis; implementing effective intervention; case management skills; treatment plan development; and a review of legal and ethical issues governing the alcohol and drug counselor’s responsibilities.

**ADC 127 — Complementary Treatment: Auricular Acupuncture, Nutrition and Amino Acid Therapy**  
(1) — CSU  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 18 lecture  

Introduces modalities of complementary medicine for addictive disorders, including auricular acupuncture, oriental medicine, nutrition and amino acid therapy and their applications as effective treatment, exploring their efficacy and how they integrate with other treatment modalities.

**ADC 128 — Introduction to the Twelve Steps of Alcoholics Anonymous**  
(1) — CSU  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 18 lecture  

Introduces the twelve steps of Alcoholics Anonymous as a basis for treatment of and a model for recovery from chronic addictive disorders. Topics include a history of the development and efficacy of the twelve steps.

**ADC 129 — Emotional Balance and Mindfulness in Recovery**  
(3) — CSU  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 48 lecture  

Introduces bio-psychological approaches to treatment of trauma and addiction, engaging dynamics between the brain and the mind. Presents research demonstrating the efficacy of meditation, mindfulness, Emotional Freedom Technique (EFT), neurofeedback, and physical/emotional lifestyle choices as transformative practices which lead to increased and lasting emotional balance.

**ADC 130 — Diversity and Cultural Issues in Counseling: Identity, Expression and Addiction**  
(3) — CSU  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture  

Examines the importance of diversity and culture in determining an individual’s reality as applied to the prevention and treatment of alcohol and other drug abuse or dependence. Explores both dependence and codependence from different cultural perspectives, with emphasis on increasing the student’s awareness of the social and economic factors that influence substance abuse among U.S. ethnic populations.
ADC 131 — Attitudes, Motivation and Behavior Change
(3) — CSU
Prerequisites: ADC 120
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Explores and contrasts models of motivation and behavior change in substance-abusing clients. Students examine and practice motivational-enhancing techniques, with emphasis on learning therapeutic skills to create conditions which facilitate an individual’s motivation to change, enlisting the cooperation in developing a plan of change, and helping the client to maintain a positive attitude.

ADC 132 — Substance Abuse and Adolescents
(3) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: ADC 120 and 124
Hours: 54 lecture
Focuses on the treatment needs and challenges of substance-abusing adolescents. Includes screening and assessment; developing effective prevention and treatment approaches; levels and types of care; case management; detoxification; individual, group and family therapy; peer-driven treatment; treatment in the juvenile justice system; and why adolescent treatment has been so unsuccessful.

ADC 133 — Anger Management and Family Violence
(3) — CSU
Prerequisites: ADC 120
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Examines anger, aggression and violence, particularly domestic violence, and their connection to substance abuse. Explores screening for domestic violence and the creation of effective treatment plans and cognitive and behavioral interventions; and coordination of services between substance abuse and domestic violence treatment providers.

ADC 134 — Co-Occurring Disorders II: Management and Treatment
(3) — CSU
Prerequisites: ADC 125
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Introduces management and treatment of persons with co-existing psychiatric and substance abuse disorders within chemical dependency treatment modalities. Building on topics covered in ADC 125, study focuses on common issues facing alcohol and drug counselors who manage cases of persons diagnosed as having a psychiatric disorder in addition to a chemical dependency. Includes pain management, utilizing 12-step programs, conflicts with such programs, working with families, integration of treatment, and treatment modalities.

ADC 136 — Eating Disorders I
(1) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 18 lecture
Examines the nature and dynamics of major eating disorders, including diagnostic criteria, physical and behavioral symptoms, risk factors, adaptive functions and appropriate referrals for treatment.

ADC 137 — Conflict Resolution
(1) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 18 lecture
Explores conflict resolution and the necessary skills to deal with situations and individuals in conflict. Presenting effective methods to resolve conflicts and disputes.

ADC 138 — Multiple Sexual Addictions
(1) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 18 lecture
Reviews the psychological and physiological aspects of addictive sexual attitudes and behaviors, the rapid expansion of pornography, the range of sexual activities available on the Internet, and the potential adverse consequences for users and their partners. Explores how addictions, compulsions and deprivations combine in a complex systemic problem called Addiction Interaction Disorder (AID).

ADC 139 — Introduction to Process Addictions
(3) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Presents the psychological and physiological aspects of process addictions within a meta-pattern model called Addiction Interaction Disorder (AID). Explores how addictions, compulsions and deprivations combine, interact and become part of one another and how these packages can be unbundled and approached separately or in whole.
ADC 140 — Recovery through Movement
(2) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 36 lecture
Explores how daily physical practice can build conscious awareness and transform negative self-perception patterns and interpretations resulting from addictive conditioned tendencies through the use of building an awareness of how the body and the mind are connected, developing an awareness of how the body takes on the shape of our experience.

ADC 141 — Integral Treatment Modalities
(1) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 18 lecture
Introduces emerging cognitive/neurological approaches to the treatment of addictive behaviors, examining the dynamic interplay between the physiology of the brain and the structures of the psyche, as affected by trauma and addiction.

ADC 145 — Prenatal Effects of Drugs and Alcohol
(1) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 18 lecture
Provides the skills to identify prenatal effects of drugs and alcohol; to intervene with pregnant women who may be abusing substances; to implement strategies and interventions to help affected individuals and their families; and to provide this vital information to those at high risk who may become pregnant.

ADC 146 — Substance Abuse Prevention
(3) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: ADC 120 and 121
Hours: 54 lecture
Provides training from evidence-based prevention initiatives and practices; the application, effective planning and evaluation of those practices from research that validates the advantages of prevention and the creation of new opportunities for expansion in the field of substance abuse.

ADC 147 — Tobacco Addiction and Treatment
(3) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Explores the nature and severity of tobacco addiction and effective interventions and strategies to promote using cessation, personal awareness and wellness, modeling these strategies. Topics include, but are not limited to, managing symptoms of stress, diet, physical movement, goal setting, habit change, resistance and fear of change regarding cessation.

ADC 152 — Clinical Process
(3) — CSU
Prerequisites: ADC 126
Corequisites: ADC 290
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Through the use of case presentations, clinical process and supervision, this course further develops and integrates specific skills and competencies central to the entry-level alcohol and drug counselor’s professional and clinical efficacy.

ADC 290 — Work Experience in Addictive Disorders Counseling
(1-4) — CSU
Prerequisites: ADC 126
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 60-300 lab
Provides certificate and degree students in Addictive Disorders Counseling with fieldwork at an agency that offers counseling and/or case management services to individuals and families with alcohol or other drug problems. Experiential learning consists of 220 hours of supervised fieldwork over a 16-week semester.
Allied Health

Program Description
The Allied Health Department offers courses for those interested in health care. These courses can be helpful in deciding to do a subsequent major in a health-related field or in meeting requirements for other majors.

Department Offices
Division: Health/Human Services
Health Technologies Office (A-218, ext. 2366)
Cindy Bower, Chair (A-274, ext 3563)
Alan Price, Dean (A-218, ext 2721)
Department Website: www.sbcc.edu/alliedhealth

Emergency Medical Technician-Basic Skills Competency Award

Department Requirements (6.0 units)
EMT 110 — Emergency Medical Tech-Basic............6.0
Students must complete this course with a grade of “C” or higher or Pass to earn the Skills Competency Award and to be eligible to take the National Registry EMT Exam. Passing the NREMT Exam is required to obtain EMT-B certification in any county in California. EMT information: www.sbcc.edu/alliedhealth/courses/EMT.php

Allied Health Courses

AH 120 — Medical Terminology
(1) — CSU
Skills Advisories: Eligibility for ENG 103
Hours: 18 lecture
Designed to provide a basic foundation for those working in health-related fields with medical vocabulary, including words associated with common laboratory, X-ray and surgical procedures, medical abbreviations, medical illnesses, and signs and symptoms of disease. Required for Radiographic/Imaging Sciences majors.

Emergency Medical Technician Courses

EMT 110 — Emergency Medical Technician-Basic
(6.0)
Course Advisories: AH 120—Medical Terminology provides a foundation for understanding terms associated with body systems and the injuries and illnesses the EMT assesses and treats.
Limitation on Enrollment: Current CPR certificate for the Health Care Provider or the Professional Rescuer.
Hours: 161 (77 lecture, 84 lab)
Theory and skills for treatment of acute/emergency injury and illness. Includes observations in hospital and with field EMS provider. Fulfills Title 22 Guidelines and State Health and Safety Code for EMT-B certification. Successful course completion required to take National Registry of EMTs Exam, which is required for certification in any California county.

EMT 111 — Emergency Medical Technician-Basic: Overview
(0.9)
Limitation on Enrollment: Current CPR certificate for the Health Care Provider or the Professional Rescuer.
Hours: 24 (12 lecture, 12 lab)
Designed for EMT-Basic recertification. Unlimited repetitions allowed for legally mandated programs. Provides knowledge and skills for treatment of emergency/acute injury and illness. Upon completion, students receive 24 hours of continuing education and a completed EMT Skills Verification Form.
American Ethnic Studies

Degrees Awarded
Associate in Arts: Black Studies
Associate in Arts: Chicano Studies
Associate in Arts: Ethnic Studies
Associate in Arts: Native American Studies

In these studies, students critically examine the interlocking forces of race, gender, class, sexuality and other forms of social differentiation that shape the histories and experiences of marginalized groups. Career choices for all four of these degrees include the areas of teaching, prelaw, law, community services, cultural arts, museums and local, state and federal governmental agencies.

Program Description
The United States, California and the Santa Barbara area have a great variety of peoples of different ethnic, racial and cultural backgrounds. All of these groups make up the American mosaic. The American Ethnic Studies Department examines the heritage, contributions and problems of these communities. Current emphasis is placed on the Asian-American, African-American, Mexican-American, Native American and other communities of color. It is the department’s belief that, through an examination of the heritage of others, one can appreciate one’s own heritage.

Degrees in Ethnic Studies can be for social work, community agency work, teaching, etc. The department is committed to providing students the knowledge, personal attributes and skills to successfully live and work in a diverse world. As a result, students are prepared to operate competently, confidently and comfortably within a multicultural setting and with the tools to adapt to a rapidly changing multicultural environment.

The department also offers courses which fulfill the Multicultural/Gender Equity requirement and General Education requirements in the Social Sciences and Humanities.

Program Student Learning Outcomes
1. Analyze the role of the state in maintaining social inequality through institutions.
2. Explain how race, class and gender roles create and sustain society within institutions.
3. Explain how social forces influence the life experience of individuals.
4. Explain the major theoretical perspectives in American Ethnic Studies.

Faculty and Offices
Thomas Carrasco, Chair/Assistant Professor (IDC-361, ext. 4350)
Craig M. Cook, Assistant Professor (IDC-357, ext. 4742)
Alice Perez, Dean (A-118, ext. 2354)

Preparation for Transfer
Course requirements for transfer vary depending upon the college or university a student wishes to attend. Therefore, it is most important for a student to consult with his/her counselor and departmental adviser before planning an academic program for transfer. Information sheets for majors, outlining transfer requirements, are available in the Counseling Center and the Transfer Center.

AA Degree, Black Studies
Department Requirements (18-19 units)
BLST 101 — African-American in U.S. History to WW II or
BLST 102 — Afr-Amer in U.S. Hist Civil Rights to Pres or
BLST 102H — Afr-Amer in U.S. Hist Civil Rights to Pres, Honors.......................................................... 3-4
BLST 103 — African-American Culture................................. 3
BLST 111 — African-American Music Experience............... 3
BLST 113 — African-American and Afro-Caribbean Literature in the U.S.................................................. 3
CHST 101 — Mexican-American (Chicano) History in U.S. or
NATA 101 — American Indian: Past and Present or
ASAM 101 — Asian-American History, 1849 -1965 ......... 3
ETHS 117 — Cultural Diversity in Film or ......................... 3
ETHS 107 — Racism in America or................................. 3
SOC 107 — Racism in America ........................................ 3

College Requirements
For complete information, see “Graduation Requirements" in the Catalog Index.

Planning a Program of Study
It is suggested that students take Black Studies 113 whenever this course is offered since it is not offered every semester. Your program should be planned in consultation with department members.
AA Degree, Chicano Studies

Department Requirements (18 units)

CHST 101 — Mexican-American (Chicano) Hist. in U.S. or
CHST 102 — The Chicano and Latino in U.S. History ....3
CHST 103 — Mexican-American (Chicano) Culture .........3
CHST 113 — Chicano Literature or
CHST 114 — Borderlands Literature: U.S.-Mexico or
CHST 115 — Introduction to Mexican Literature ..........3
CHST 121 — The Chicana and Other Latina Women ........3
CHST 130* — History of Mexican Art or ........................3
CHST 131* — History of Chicano Art ..........................3

*Students who completed CHST 119 (19) are exempt from this requirement.

Plus one of the following:
ASAM 101 (ASAMST 101/1) — Comp Asian-American History, 1849-1965 ........................................3
BLST 101 — African-American in U.S. History ..............3
NATA 101 (NATAM 101/1) — American Indian: Past and Present .................................................................3

College Requirements

For complete information, see “Graduation Requirements” in the Catalog Index.

Planning a Program of Study

Your program should be planned in consultation with department members.

AA Degree, Ethnic Studies

Department Requirements (18-20 units)

Two courses from the following (total 6-8 units):
ASAM 101 — Comp Asian-American History or
ASAM 102 — Cont Asian-American History .................3
BLST 101 — African-American in U.S. History, to World War II or
BLST 102 — African-American in U.S. History, Civil Rights to Present or
BLST 102H — Afr-Amer in U.S. Hist Civil Rights to Pres, Honors ..........................................................3-4
CHST 101 — Mexican-American (Chicano) History in U.S. or
CHST 102 — The Chicano and Latino in U.S. History, 1960s to Present ...................................................3
ETHS 101 — The Immigrant Experience in the U.S. or
ETHS 101H — The Immigrant Experience in the U.S., Honors or
HIST 114 — The Immigrant Experience in the U.S. or
HIST 114H — The Immigrant Experience in the U.S., Honors .................................................................3-4
ETHS 121 — Women of Color in the U.S. or
CHST 121 — The Chicana and Other Latina Women or
ETHS 122 — Arab-American and Middle Eastern Women in the U.S. .......................................................3
NATA 101 — American Indian: Past and Present ..........3

Two courses from the following (total 6 units):
BLST 103 — African-American Culture .......................3
CHST 103 — Mexican-American (Chicano) Culture ....3
ETHS 107 — Racism in America ..................................3
ETHS 109 — U.S. — Mexico and Other Borderlands .....3
ETHS 110 — Contemporary Ethnic Communities ..........3
NATA 103 — Native American Cultural Heritage ..........3

One course from the following (total 3 units):
BLST 113 — Afr-Amer and Afro-Caribbean Lit in the U.S. ...3
CHST 113 — Chicano Literature ..................................3
CHST 115 — Intro to Mexican Literature ........................3
NATA 113 — The Indian in Literature: Fact and Fiction ....3

One course from the following (total 3 units):
BLST 111 — African-American Music Experience ........3
NATA 112 — Native American Visual and Musical Art ....3

AA Degree, Native American Studies

Department Requirements (18 units)

NATA 101 — American Indian: Past and Present ............3
NATA 102 — Native American in 20th Cent Soc or
NATA 105 — California Tribes: The Chumash ...............3
NATA 103 — Native American Cultural Heritage .........3
NATA 112 — Native American Visual and Musical Art ....3
NATA 113 — The Indian in Literature: Fact and Fiction ....3
CHST 101 — Mexican-American (Chicano) History in U.S. or
BLST 101 — African-American in U.S. History to WW II or
ASAM 101 — Comparative Asian-American History, 1849-1965 ..............................................................3
College Requirements
For complete information, see “Graduation Requirements” in the Catalog Index.

Planning a Program of Study
It is suggested that students take Native American Studies 102, 104 and 112 whenever these courses are offered since they are not offered every semester. A program should be planned in consultation with department members.

Asian-American Studies Courses
ASAM 101 — Comparative Asian-American History, 1849 to 1965 (3) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Comparative survey of Chinese, Japanese, Korean, Filipino and South Asian immigration into Hawaii and the continental United States. Settlements and employment patterns, community organizations, anti-Asian movements; women and families; incarceration of Japanese-Americans during World War II; and post-war developments.

ASAM 102 — Contemporary Asian-American History (3) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Focuses on Asian-Americans from 1965 to present, including renewed immigration, the impact of new Asian-American ethnic groups, responses to racism, and the demographics, culture and politics of Asian-Americans in the 21st century.

Black Studies Courses
BLST 101 — The African-American in U.S. History to World War II (3) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Historical survey of Black people in American society and culture from the African background to World War II, with special emphasis on contributions, institutions, trends, movements and problems relevant to Black America. A balanced emphasis is placed on social, political, economic and intellectual considerations. Lecture course, with an emphasis on discussion.

BLST 102 — The African-American in U.S. History from Civil Rights Movement to Present (3) — CSU, UC*
Skills Advisories: Eligibility for ENG 103
Hours: 54 lecture
Comprehensive examination of the history of Black people in American society and culture from the Civil Rights Movement to the present, with special emphasis on contributions, institutions, trends, movements and problems relevant to Black America. The award-winning film series, Eyes on the Prize, serves as a focal point. (*UC transfer limit: 102 and 102H combined: maximum credit, one course)

BLST 102H — The African-American in U.S. History from Civil Rights Movement to Present, Honors (4) — CSU, UC*
Limitation on Enrollment: Honors Program Acceptance
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 72 lecture
Comprehensive examination of the history of Black people in American society and culture from the Civil Rights Movement to the present, with special emphasis on contributions, institutions, trends, movements and problems relevant to Black America. The award-winning film series, “Eyes on the Prize,” serves as a focal point. (*UC transfer limit: 102 and 102H combined: maximum credit, one course)

BLST 103 — African-American Culture (3) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Analysis of what it means to be Black in America. Historical, sociological and anthropological methods are used to examine African-American culture and its relationship to the larger society.

BLST 111 — The African-American Music Experience (3) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Survey and appreciation of basic concepts in music, via examination of the principal developments in the primitive, folk and classical music of African-Americans as culture for the non-music major.
BLST 113 — African-American and Afro-Caribbean Literature in the U.S.  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture  
Designed to increase the knowledge and appreciation of African-American and Afro-Caribbean literature in the United States. Examines the story, novel, poem and essay genres.

Chicano Studies Courses

CHST 101 — Mexican-American (Chicano) History in the U.S.  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture  
Examines the role of the Mexican-Americans and other Latinos/as in U.S. history. Attention is given to economic, social, political and cultural experiences of Mexican-Americans.

CHST 102 — The Chicano and Latino in U.S. History from the 1960s to the Present  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture  
Comprehensive examination of the history of Chicanos and other Latinos in American society from the 1960s to the present. The institutions, movements, personalities, contributions and problems of these people are explored.

CHST 103 — Mexican-American (Chicano) Culture  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture  
Examines the Mexican-American experience by focusing on the culture, its historical development and its place in American society.

CHST 113 — Introduction to Chicano/Mexican-American Literature  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture  
Examines the literary expression of the Mexican-American and his/her quest for a rightful place in society.

CHST 114 — Borderlands Literature: U.S.-Mexico  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture  
Survey of the literary expression of the U.S.-Mexico border from the 1500s to the present, focusing on the development of cultural paradigms between the two countries. Comparisons are made with the literature of other nations and borderlands.

CHST 115 — Introduction to Mexican Literature  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture  
Survey of the literary expression of the Mexican people. Comparisons are made with American literature and the literature of other nations.

CHST 121 — The Chicana and Other Latina Women  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture  
Examination of the role of women of Mexican ancestry (Chicanas) and other Latina women in American society. Uses a sociological approach to examine the family, religion, education, economics, social conditions, health and other areas.

CHST 130 — History of Mexican Art  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture  
Survey of modern Mexican art and its antecedents. Consideration is given to the influence of Mexican art. Besides using methods of artistic analysis, the class also uses historical and sociological methods to examine the Mexican-American experience.

CHST 131 — History of Chicano Art  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture  
Examines the development of the art of the Chicano people from Pre-Columbian days until the modern period.
CHST 160/TA 160 — Chicano Theatre
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Survey of Chicano and Latino theatre, its historical roots, techniques, styles and literature. Students explore and analyze the origins and development of various related forms in the context of the Chicano culture of the American Southwest and Mexico.

Ethnic Studies Courses

ETHS 101/HIST 114 — The Immigrant Experience in the U.S.
(3) — CSU, UC*
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Comparative study of foreign immigrants in the United States from the mid-19th century to the present. Examines ethnic identity and nativist resistance to newcomers. Particular attention is paid to Hispanic and Asian immigrants, as compared to European immigrants. Analyzes the social and economic conditions, as well as cultural factors that shape immigrant adjustment patterns. (*UC transfer limit: 101/HIST 114 and 101H/HIST 114H combined: maximum credit, one course)

ETHS 101H/HIST 114H — The Immigrant Experience in the U.S., Honors
(4) — CSU, UC*
Limitation on Enrollment: Honors Program Acceptance
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 72 lecture
Comparative study of foreign immigrants in the United States from the mid-19th century to the present. Examines ethnic identity and nativist resistance to newcomers. Particular attention is paid to Hispanic and Asian immigrants, as compared to European immigrants. Analyzes the social and economic conditions, as well as cultural factors that shape immigrant adjustment patterns. (*UC transfer limit: 101/HIST 114 and 101H/HIST 114H combined: maximum credit, one course)

ETHS 103 — The American Ethnic Cultural Experience
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 98 and 110H
Hours: 54 lecture
Examines the interdisciplinary study of art, architecture, music, literature, history and philosophy which reflects the cultural identity of American racial and ethnic minorities. Also examines the experiences of people of diverse ethnic, racial, and cultural identities in American society, past and present.

ETHS 107/SOC 107 — Racism in America
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Examines race and ethnicity and the impacts of racism upon selected racial and ethnic groups in American society. Covers major theories on the development of racial attitudes and behavior. Attention is also given to relationship between racism, sexism and class oppression.

ETHS 109 — U.S. – Mexico and Other Borderlands
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Analysis of the Mexico–U.S. and other borderlands. Discussions focus on international, regional, community and personal contexts, as they concern intercultural relations. Attention is given to all of the ethnic groups present in these borderland areas.

ETHS 110 — Contemporary Ethnic Communities
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Designed to introduce and familiarize students with contemporary urban ethnic communities. Surveys distinctive historical, cultural and economic experiences that shape community social formation. Examines the role that immigration and the global economy play in family, religion, language and community organizational structure.
ETHS 117 — Cultural Diversity In Film  
(3) — CSU, UC  
**Skills Advisories: Eligibility for ENG 98 and 103**  
**Hours: 54 lecture**  
Introduction to images of and by women, African-Americans, Latino-as, Asian-Americans and Native Americans on film. Covers the evolution of racial, ethnic, and gender stereotypes in film and the effort to more accurately and fairly portray gender, racial and ethnic diversity in cinema.

ETHS 120 — Race, Ethnicity and Social Movements in the U.S.  
(3) — CSU, UC  
**Skills Advisories: Eligibility for ENG 110 or 110H**  
**Hours: 54 lecture**  
Social movements pervade the history of the United States. Many social movements feature prominently in the national imagination and memory, and many communities lay claim to one version or another of a specific movement. This course will use a social movement perspective to discuss racial and ethnic movements and conflict in the United States.

ETHS 121 — Women of Color in the U.S.  
(3) — CSU, UC  
**Skills Advisories: Eligibility for ENG 110 or 110H**  
**Hours: 54 lecture**  
Interdisciplinary, multi-perspective, comparative study of women of color in the United States. Includes African/African-American, Asian/Asian-American/Pacific Islander, Chicana/Hispanic/Latina, Caribbean, Middle Eastern, Native American and other non-white, non-Western European women. Traces and analyzes the historical and contemporary participation, contributions and relationships of women of color in U.S. society.

ETHS 122 — Arab-American/Middle Eastern Women in the U.S.  
(3) — CSU, UC  
**Skills Advisories: Eligibility for ENG 110 or 110H**  
**Hours: 54 lecture**  
Comparative study of women of Arab/Middle Eastern descent living in the United States. Focus on the contributions of, and participation by, these women in American society.

ETHS 295 — Internship in Ethnic Studies  
(2-4) — CSU  
**Limitation on Enrollment: Completion of two courses (in applicable discipline) at SBCC prior to enrolling in an internship course.**  
**Skills Advisories: Eligibility for ENG 110 or 110H**  
**Hours: 96-216 lab**  
Structured internship program in which students gain experience with community organizations related to the discipline.

ETHS 299 — Independent Study in Ethnic Studies  
(1-4) — CSU  
**Limitation on Enrollment: Six units of Ethnic Studies courses completed with a 3.0 or higher GPA; minimum of 12 units of course work completed at SBCC with a GPA of at least 2.5.**  
**Hours: 48-192 lab**  
Student works under guidance and direction of sponsoring faculty member on project consistent with interests and abilities. Minimal weekly meetings with faculty sponsor required. Course may be taken for one to four units of credit, with each unit of credit requiring student to devote approximately three hours per week to his/her project. (UC Transfer Limit: 299 computed as Independent Studies; see a counselor)

For complete information, see “Independent Study” in the Catalog Index.

Native American Studies Courses

NATA 101 — American Indian: Past and Present  
(3) — CSU, UC  
**Skills Advisories: Eligibility for ENG 110 or 110H**  
**Hours: 54 lecture**  
Survey of American Indian tribes, their cultural diversity, history and current conditions. Focuses on the impact that Native American peoples have had and still have on the history and cultural development of the United States. Emphasis is on the dynamic and changing roles that diverse Native American peoples have played throughout United States history. Changing attitudes and policies of Native American people and Euro-Americans are also covered.
### NATA 102 — The Native American in 20th Century Society
   
   *(3) — CSU, UC*
   
   **Skills Advisories:** Eligibility for ENG 110 or 110H  
   **Hours:** 54 lecture
   
   Overview of modern history and culture of Native American peoples. Explores the impact of changing political, social and economic trends on Native Americans in the U.S. The dynamic interaction between the dominant Euro-American cultural patterns and the various Native American cultural patterns is explored. Attempts by the dominant culture to destroy and/or modify Native American cultures is a major focus.

### NATA 103 — Native American Cultural Heritage
   
   *(3) — CSU, UC*
   
   **Skills Advisories:** Eligibility for ENG 110 or 110H  
   **Hours:** 54 lecture
   
   Survey of American Indian cultures—their arts, rituals, religion, philosophy, material culture, social organization, educational systems and adaptation to European culture.

### NATA 104 — California Indians
   
   *(3) — CSU, UC*
   
   **Skills Advisories:** Eligibility for ENG 110 or 110H  
   **Hours:** 54 lecture
   
   Native peoples of California: their origin, language, arts, customs, religion and music.

### NATA 105 — California Tribes: The Chumash
   
   *(3) — CSU, UC*
   
   **Skills Advisories:** Eligibility for ENG 110 or 110H  
   **Hours:** 54 lecture
   
   Survey designed to familiarize the student with Chumash Indian culture, historical experience and sovereignty issues as compared to other California tribes. Focuses on the experience and contributions of the Chumash over the past 300 years. Historical changes in artistic, cosmological and political perspectives throughout history, and the tribal culture, rights and political orientation of the modern Chumash peoples examined.

### NATA 112 — Native American Visual and Musical Art
   
   *(3) — CSU, UC*
   
   **Skills Advisories:** Eligibility for ENG 110 or 110H  
   **Hours:** 54 lecture
   
   Overview of Native American visual, oral and musical arts. Cultural roots and philosophical traditions also covered.

### NATA 113 — The Indian in Literature: Fact and Fiction
   
   *(3) — CSU, UC*
   
   **Skills Advisories:** Eligibility for ENG 110 or 110H  
   **Hours:** 54 lecture
   
   Major Native American cultures from Pre-Columbian times to present, as treated in both non-fictional and fictional literature. Mayan, Aztec-Toltec, Southwestern tribes, Iroquois, the Five Civilized Tribes, Plains Indians and Eskimo cultures examined.
Anthropology

Program Description
The study of Anthropology is the study of humanity—all aspects of humanity—and as such covers a hugely diverse range of seemingly disparate topics. Anthropologists look not just at one particular society, culture or religion, but rather they look at how seemingly divergent cultures, pasts, individuals and social trends are related to one another and to all of humankind as a whole. With this knowledge, anthropologists believe it is possible for us to gain a better understanding of who we are, where we have come from, and where we may be heading in the future.

Anthropology itself is so broad a topic that it must really be broken down into several sub-disciplines, among which are Cultural Anthropology, Physical Anthropology, Archaeology, Linguistic Anthropology and Applied Anthropology (though the final discipline, Applied Anthropology, really includes the application of the other disciplines’ methods and theories to modern day problems, and is not always included as its own sub-discipline). Through these sub-disciplines, all of human existence can be examined and brought into a greater understanding.

The goal of the Anthropology Program at Santa Barbara City College is to prepare students to use Anthropology’s wide range of studies, research methods, applications and areas of interest to gain a greater understanding of people in general and the world as a whole. The program aims to educate students as to the various forms that Anthropology can take, how some of the more specialized technological fields (such as Archaeology and Physical Anthropology) apply their research methods, give students the tools necessary to examine and evaluate the world and cultures around them, show them where we, as a species, have come from, and enable them to competently and confidently effect a change in the society and culture of which they are a part.

Students majoring in Anthropology have been successful in transferring to four-year university programs in Anthropology and other disciplines, and have acquired employment in a range of fields and for a variety of employers. Examples include heritage resource managers for the National Park Service and other state and federal agencies, museum curators, forensic anthropologists for city and county law enforcement, marine salvage specialists, and corporate cultural sensitivity trainers.

Program Student Learning Outcomes
1. Demonstrate basic knowledge of the holistic nature of Anthropology and the concepts of culture and biology as used by contemporary anthropologists.
2. Describe the development of Anthropology as a profession, explaining why it can be considered both a science and a humanity and how it became a distinct field of inquiry while retaining a relationship with other academic disciplines.
3. Discuss the four-field nature of Anthropology and the relation of its sub-disciplines to one another, particularly in terms of the biological and social construction of such terms as sex, gender and race.
4. Describe ways in which different aspects of culture—economic, social, political, and religious practices and institutions—relate to one another in a cultural system, and draw comparisons between different cultures, past and present.
5. Demonstrate an awareness and appreciation of cultural diversity enhanced by a holistic perspective on culture as integrated, dynamic, and embedded in broader processes of intercultural connection and globalization.
6. Discuss their own cultural biases, as well as the biases of others, explaining why these biases exist while retaining the ability to put said biases aside in order to evaluate the cultural syntheses of others in ethnographies, films, news and media.
7. Articulate the importance of ethics in Anthropology, specifically the fundamental obligations of anthropologists to members of the societies they study, their research sponsors and their profession.

Department Offices
Division: Social Sciences
Phyllisa Eisentraut, Chair (IDC-369, ext. 4745)
Alice Perez, Dean (A-118, ext. 2354)

Faculty and Offices
Phyllisa Eisentraut, (IDC-369, ext. 4745, eisentraut@sbcc.edu)
Tara Carter (ESL-18, tkcarter@pipeline.sbcc.edu)

Degree
Associate in Arts Degree: Anthropology

Requirements for AA Degree in Anthropology

The Associate Degree will be awarded upon completion of both department and college requirements.
Department Requirements (18-21 units)

ANTH 101 — Physical Anthropology or
ANTH 101H — Physical Anthropology ......................... 3-4

ANTH 102 — Introduction to Archaeology or
ANTH 102H — Introduction to Archaeology .................. 3-4

ANTH 103 — Introduction to Cultural Anthropology .......... 3

ANTH 104 — Language and Culture ........................... 3

SOC 101 — Introduction to Sociology or
SOC 101H — Introduction to Sociology ........................ 3-4

Plus one of the following:

ANTH 109 — Comparative World Culture ...................... 3

ANTH 113 — Witchcraft, Magic, Science and Religion ...... 3

ANTH 121-126 — Cultures Around the World
(minimum 3 units) .................................................. 3

Requirements for AA-T Degree — Anthropology for Transfer

The study of Anthropology is the study of humanity—all aspects of humanity—and as such covers a hugely diverse range of seemingly disparate topics. Anthropologists look not just at one particular society, culture or religion, but rather they look at how seemingly divergent cultures, pasts, individuals and social trends are related to one another and to all of humankind as a whole. With this knowledge, anthropologists believe it is possible for us to gain a better understanding of who we are, where we have come from, and where we may be heading in the future.

The Associate in Arts in Anthropology for Transfer degree (AA-T in Anthropology) will provide the foundational knowledge in Anthropology to students who want to earn a Baccalaureate Degree in Anthropology.

Degree Requirements

Complete 60 CSU-transferable units including general education, major requirements and CSU-transferable electives as follows:

I. General Education

Complete one of the following patterns:

• Intersegmental General Education Transfer Curriculum “IGETC” for CSU (Minimum 38 semester units)
• California State University General Education Breadth pattern (Minimum 40 semester units)

II. Major

Complete 18-23 units as outlined below with a “C” or better in each course. Pass/No Pass grading is not permitted in a course within a student’s major area of study. The courses completed for the major may also be used to fulfill the IGETC General Education areas.

Required Core (9 units)

ANTH 101* — Physical Anthropology ......................... 3
ANTH 101H — Physical Anthropology ......................... 4

ANTH 102* — Introduction to Archaeology .................. 3
ANTH 102H — Introduction to Archaeology .................. 4

ANTH 103* — Introduction to Cultural Anthropology .... 3

List A. Select one course from the following (3-5 units)

ANTH 104* — Language and Culture .......................... 3

ANTH 113* — Witchcraft, Magic, Science and Religion .... 3

BOT 121* — Plant Diversity .................................... 4

COMM 235* — Argumentation and Debate ................... 3

EH 102 — Soils and Plant Nutrients ............................ 3

ENG 111* — Critical Think and Comp Through Lit or ...... 3

ENG 111H* — Crit. Thk. and Comp. Thru Lit, Honors ...... 3

ENVS 110* — Humans and the Biological Environment ... 3

ERTH 114* — The Geology of California ...................... 3

ERTH 126* — Petrology and Rock-Forming Minerals ....... 5

ERTH 151* — Introductory Physical Oceanography ........ 3

GEOG 101* — Physical Geography or ......................... 3

ERTH 141* — Physical Geography .............................. 3

GEOG 102* — Human Geography ............................... 3

NATA 103* — Native American Cultural Heritage .......... 3

PHIL 111 — Critical Thinking and Writing in Philosophy ... 3

PSY 150* — Statistics for Behavioral Science or ........... 4

MATH 117* — Elementary Statistics .......................... 4

MATH 117H* — Elementary Statistics, Honors ............... 4

ZOOL 122* — Animal Diversity ................................. 3

List B. Select one course from the following (3-5 units)

Any List A Course not selected above and/or

BMS 107* — Human Anatomy .................................... 4

ENVS 115* — Environmental Geology and ................ 3

ENVS 115L* — Environmental Geology, Lab or ............ 1

ERTH 115* — Environmental Geology and ................... 3
Planning a Program of Study
A student planning a major in Anthropology should take the three basic courses required for the major (ANTH 101, 102 and 103) and as many of the more specialized courses offered by the department as possible. If the student's emphasis will be in the area of Physical Anthropology, the student should explore other related courses in biology. If the student's emphasis will be in the area of Cultural Anthropology, the student should take ANTH 113 and 121 and related courses in the fields of sociology and psychology. A student interested primarily in Archaeology should take related courses in geology and biology.

Preparation for Transfer
Course requirements for transfer vary depending upon the college or university a student wishes to attend. Therefore, it is most important for a student to consult with his/her counselor and departmental adviser before planning an academic program for transfer. Information sheets for majors, outlining transfer requirements, are available in the Counseling and Transfer Centers.

Honors and Awards
The Anthropology Department selects one student majoring in the discipline as the Outstanding Student in Anthropology for the year, to be honored at the annual Santa Barbara City College Award Banquet. Selection is made by the faculty, based on academic excellence in Anthropology and contribution to the department, college and/or community,

Department Resources
The Anthropology Department offers a self-scheduled, self-paced, modular course entitled, Cultures Around the World, all materials for which are in either an online format or available, day and evening, in the Learning Resources Center.

Anthropology Courses
ANTH 101 — Physical Anthropology
(3) — CSU, UC*
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Biological aspects of human characteristics and behavior, the relationship of humans to other animals, the origins and evolutionary adaptations of human
populations and the biological basis for the diversity of human groups. (*UC transfer limit: 101 and 101H combined: maximum credit, one course)

**ANTH 101H — Physical Anthropology**  
(4) — CSU, UC*  
**Skills Advisories: Eligibility for ENG 110 or 110H**  
**Hours: 72 lecture**  
Biological aspects of human characteristics and behavior, the relationship of humans to other animals, the origins and evolutionary adaptations of human populations, and the biological basis for the diversity of human groups. Emphasis on reading and discussing selections from classic and contemporary research, and producing original research projects. (*UC transfer limit: 101 and 101H combined: maximum credit, one course)

**ANTH 101L — Physical Anthropology Laboratory**  
(1) — CSU, UC  
**Skills Advisories: Eligibility for ENG 110 or 110H**  
**Hours: 48 lab**  
Laboratory approach to topics covered in ANTH 101, with emphasis on population genetics, human osteology, biological classification, primate behavior and fossil hominins.

**ANTH 102 — Introduction to Archaeology**  
(3) — CSU, UC*  
**Skills Advisories: Eligibility for ENG 110 or 110H**  
**Hours: 54 lecture**  
Introduction to the methods and theories of anthropological archaeology, as well as a review of significant data and models that contribute to knowledge of the human past. Includes the history and interdisciplinary nature of archaeological research; dating techniques; field and laboratory methods; CRM; ethical considerations; and selected cultural sequences. (*UC transfer limit: 102 and 102H combined: maximum credit, one course)

**ANTH 102H — Introduction to Archaeology Honors**  
(4) — CSU, UC*  
**Skills Advisories: Eligibility for ENG 110 or 110H**  
**Hours: 72 lecture**  
Introduction to the methods and theories of anthropological archaeology, as well as a review of significant data and models that contribute to knowledge of the human past. Includes the history and interdisciplinary nature of archaeological research; dating techniques; field and laboratory methods; CRM; ethical considerations; and selected cultural sequences. (*UC transfer limit: 102 and 102H combined: maximum credit, one course)

**ANTH 103 — Introduction to Cultural Anthropology**  
(3) — CSU, UC*  
**Skills Advisories: Eligibility for ENG 110 or 110H**  
**Hours: 54 lecture**  
Introductory survey which explores humankind’s cultural diversity through the application of contemporary anthropological theories and perspectives. Based on the premise that studying others enables us to see ourselves better. Culture is analyzed, and the basic principles of the discipline are examined critically. (*UC transfer limit: 103, 121, 122, 123 combined: maximum credit, three units)

**ANTH 104 — Language and Culture**  
(3) — CSU, UC  
**Skills Advisories: Eligibility for ENG 110 or 110H**  
**Hours: 54 lecture**  
Examines the study of language in real-life social contexts around the world through the contemporary theory and practice of linguistic anthropology.

**ANTH 109 — Comparative World Cultures**  
(3) — CSU, UC  
**Skills Advisories: Eligibility for ENG 110 or 110H**  
**Hours: 54 lecture**  
In-depth comparison of two or more of the world’s cultures. Emphasizes the cultural and ethnic diversity of the areas. Focuses on a comparison and contrast of traditional cultural complexes, cultures in transition, and contemporary and/or historic patterns.

**ANTH 110/SOC 110 — Culture and Society Through Cartoons**  
(3) — CSU, UC  
**Skills Advisories: Eligibility for ENG 110 or 110H**  
**Hours: 54 lecture**  
Investigates ideas and themes related to culture, society and media, using episodes and excerpts from *The Simpsons* and *South Park*. Sociological and anthropological theories and methodologies are discussed, specifically examining elements of culture, the development of the self, and contemporary American society.
ANTH 113 — Witchcraft, Magic, Science and Religion
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Introductory course designed to examine belief systems of a wide variety of cultures around the world.

ANTH 121 — Cultures Around The World: Asia and the Pacific
(1) — CSU, UC*
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 18 lecture
Students study a variety of cultures from across Asia and the Pacific. Access course materials online, following study guides. (*UC Transfer Limit: 103, 121, 122, 123 combined; maximum credit 3 units)

ANTH 122 — Cultures Around The World: The Americas
(1) — CSU, UC*
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 18 lecture
Students study a variety of cultures from across the Americas. Access course materials online, following study guides. (*UC Transfer Limit: 103, 121, 122, 123 combined; maximum credit 3 units)

ANTH 123 — Cultures Around The World: Africa and the Middle East
(1) — CSU, UC*
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 18 lecture
Students study a variety of cultures from across Africa and the Middle East. Access course materials online, following study guides. (*UC Transfer Limit: 103, 121, 122, 123 combined; maximum credit 3 units)

ANTH 124 — Cultures Around The World
(1) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 18 lecture
Modular, self-paced, self-scheduled course. The student can choose from a list of cultures to study. For each culture, the student views a slide/tape presentation in the Learning Resource Center, with study guide available. Each five cultures completed earns one (1) unit of credit. (*UC Transfer Limit: 124-126 computed as Independent Studies, see counselor)

ANTH 125 — Cultures Around The World
(1) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 18 lecture
Modular, self-paced, self-scheduled course. The student can choose from a list of cultures to study. For each culture, the student views a slide/tape presentation in the Learning Resource Center, with study guide available. Each five cultures completed earns one (1) unit of credit. (*UC Transfer Limit: 124-126 computed as Independent Studies, see counselor)

ANTH 126 — Cultures Around The World
(1) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 18 lecture
Modular, self-paced, self-scheduled course. The student can choose from a list of cultures to study. For each culture, the student views a slide/tape presentation in the Learning Resource Center, with study guide available. Each five cultures completed earns one (1) unit of credit. (*UC Transfer Limit: 124-126 computed as Independent Studies, see counselor)

ANTH 295 — Internship in Anthropology
(2-4) — CSU
Limitation on Enrollment: Completion of two courses in the Anthropology Department at SBCC prior to enrolling in an internship course
Hours: 108-273 lab
Five to 10 hours weekly on-the-job experience. Structured internship program in which students gain experience in community organizations related to the discipline.

ANTH 299 — Independent Study in Anthropology
(1-4) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Limitation on Enrollment: Six units of Anthropology courses completed with a 3.0 or higher GPA; minimum of 12 units of coursework completed at SBCC with a GPA of at least 2.5
Hours: 48-192 lab
For complete information, see “Independent Study” in the Catalog Index. (*UC Transfer limit: 299 computed as Independent Study; see counselor)
Art

“It takes a lot of willpower and desire to be an artist hunting for what excites your imagination. It can be difficult because it takes so much discipline to continue.”
— Barry LeVa

Degrees

Associate in Arts Degree, Art: Emphasis in Art History

Associate in Arts Degree (AA-T):
Art History for Transfer

Associate in Arts Degree, Art: Emphasis in Art Studio

Associate in Arts Degree (AA-T):
Studio Art for Transfer

Program Description

The Art Department at Santa Barbara City College provides the students an opportunity to study and experience art from a broad range of emphases: a well-structured art studio or art history curriculum for the traditional art major; as part of a structured program for majors from other departments such as MAT or Graphic Design; or for enrichment, development and fulfillment of college requirements for the non-art major.

The department offers courses in design, drawing, three-dimensional design, painting, printmaking, artists’ books, ceramics, sculpture and art history to provide the student a full background and training for either transfer to another institution or to proceed independently.

The Art Department is committed to student success in its many programs by providing the highest level of instruction and experience from our foundation level courses to the upper level studio classes. We offer an Associate in Arts Degree or transfer Certificate in Studio Art and Art History and have seen many of our students successfully move on to art schools, 4-year Institutions and professional careers.

In addition, the Art Department offers an AA-T Degree in Art History for Transfer and an AA-T Degree in Studio Art for Transfer. These degrees provide the foundational knowledge in Art History or Studio Arts to students who want to earn a Baccalaureate Degree in Art History or Studio Art. These degrees are in compliance with the Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code Sections 66746-66749) and guarantee admission to a California State University (CSU) campus for any community college student who completes an “associate degree for transfer,” a newly established variation of the associate degrees traditionally offered at a California community college. Upon completion of the transfer associate degree, the student is eligible for transfer with junior standing into the California State University (CSU) system. Students will be given priority consideration when applying to a particular program that is similar to the student’s community college area of emphasis. For more information on transfer degrees, visit www.sb1440.org.

We have a strong commitment to our local community and have reached a broad audience through the Atkinson Gallery and our Fine Arts Lecture Series, wherein speakers from many art disciplines come to our department and present talks. We support the Art Students Club that also organizes symposia and field trips. We are proud of the broader art experience we have been able to provide to our students. We maintain strong outreach to our local high schools, particularly the VADA program at Santa Barbara High School. We currently offer a dual-enrollment Art History course with SBHS. We continue to support the Santa Barbara Arts Fund Teen Arts Mentorship Program through faculty involvement as mentors.

Program Student Learning Outcomes

1. Demonstrate knowledge and application and/or analysis of formal principles and elements of art.
2. Demonstrate critical thinking as it applies to critique, evaluation and/or production of works of art.
3. Demonstrate proficiency in understanding and/or use of tools and techniques of making visual art.
4. Demonstrate knowledge of various artistic movements and significant artists.
5. Demonstrate professional behavior in the studio/classroom.

Department Offices

Division: Fine Arts
Christopher Bates, Chair (H-210, ext. 2410)
Alice Perez, Dean (A-118, ext. 2354)

Faculty and Offices

Christopher Bates, Ceramic Area Coordinator (H-210, ext. 2410)
Stephanie Dotson, Printmaking Area Coordinator (H-213, ext. 3622)
Joy Kunz, Art History (H-212, ext. 3737)
Thomas Larson, Art History (H-211, ext. 2955)
Armando Ramos, Sculpture and 3D Area Coordinator (H-209, ext. 2411)
Chris Ulivo, Painting Area Coordinator (H-214, ext. 2418)
Stephanie Washburn, Drawing Area Coordinator (H-208, ext. 4218)

**Image Resource Center**
Ann Wellman, Curator (H-223, ext. 3875)

**Art Department Aide**
Alexis Pittmon (H-227, ext. 4772)

**Art Department Lab Teaching Assistant**
Joe Tamony (H-106, ext. 4386)

**Atkinson Gallery, H-202**
Sarah Cunningham, Director (H-208, ext. 3484)

**Adjunct Faculty**
In addition to the full-time faculty, the Art Department has a strong adjunct teaching faculty. Among this changing group of working and exhibiting artists and art historians are Sarah Cunningham, Thomas Decker, Elizabeth Folk, Nathan Hayden, Laura Krifka, Michele Onstot, Rafael Pere de la Cabada, Helen Tye Talkin and Barbara Vilander.

The Art Department strongly encourages students to complete the Foundation Level courses below prior to more specialized courses. Santa Barbara City College is enforcing all prerequisites, and registration will be blocked unless the prerequisite courses have been completed.

**ART 103 — History of Art, Prehistoric to Gothic or ART 103H — History of Art, Prehistoric to Gothic, Honors**

**ART 104 — History of Art, Renaissance to Modern or ART 104H — History of Art, Renaissance to Modern, Honors**

**ART 120 — Fundamentals of Drawing**

**ART 140 — 2D Design: Composition and Color**

**ART 141 — 3D Design: Form and Space**

**Controlled Electives:**
*Select one 3 unit course from groups A, B and C:*

**Group A**
ART 121 — Intermediate Drawing.................................3
ART 122 — Advanced Drawing..................................3
ART 123 — Figure and Portrait Drawing........................3

**Group B**
ART 130 — Integrated Drawing and Painting ................3.3
ART 131 — Fundamentals of Oil Painting.........................3
ART 132 — Fundamentals of Painting................................3
ART 190 — Introduction to Printmaking........................3
ART 193 — Beginning Printmaking: Silkscreen ................3

**Group C**
ART 150 — Fundamentals of Ceramics............................3
ART 170 — Introduction to Sculpture..............................3

**Support Courses: Select one course (3-4 units):**

**College Requirements**
For complete information, see “Graduation Requirements” in the Catalog Index.

**Requirements for AA Degree, Art: Emphasis in Art History**

**Department Requirements (27-28 units)**

**Art of the Western World**
ART 102A — Early Twentieth Century Art.....................3
ART 102B — Late Twentieth Century Art.......................3
ART 103 — History of Art, Prehistoric to Gothic or.........
ART 103H — History of Art, Prehistoric to Gothic, Honors..................................................3-4
ART 104 — History of Art, Renaissance to Modern or ART 104H — History of Art, Renaissance to Modern, Honors..................................................3-4

**Requirements for AA Degree, Art: Emphasis in Art Studio**

**Department Requirements (33-33.6 units)**
ART 102A — Early Twentieth Century Art.....................3
ART 102B — Late Twentieth Century Art.......................3
ART 103 — History of Art, Prehistoric to Gothic or........
ART 103H — History of Art, Prehistoric to Gothic, Honors..................................................3-4
ART 104 — History of Art, Renaissance to Modern or ART 104H — History of Art, Renaissance to Modern, Honors..................................................3-4
Art of the Non-Western World (Select one course)
ART 108 — History of Asian Art ..................................3
ART 111 — Survey of Tribal Arts ..................................3
ART 112 — Survey of Pre-Columbian Art .........................3
ART 215 — Survey of Non-Western Art ..........................3

Studio Art (Select one course)
ART 120 — Fundamentals of Drawing ..........................3
ART 140 — 2D Design: Composition and Color ................3
ART 141 — 3D Design: Form and Space ........................3

Controlled Electives (Select two courses)
ART 106 — History of American Art ............................3
ART 108 — History of Asian Art ................................3
ART 110 — History of Women in Art ............................3
ART 111 — Survey of Tribal Arts ................................3
ART 112 — Survey of Pre-Columbian Art .........................3
ART 114 — History of Photography ..............................3
ART 210 — Survey of Renaissance and Baroque Art ..........3
ART 211 — Nineteenth Century Art ..............................3
ART 216 — Survey of Islamic Art and Architecture ............3

Support Courses (Select one course)
ART 101 — Visual Literacy .........................................3
ART 120 — Fundamentals of Drawing ..........................3
ART 122 — Advanced Drawing ....................................3
ART 140 — 2D Design: Composition and Color ................3
ART 141 — 3D Design: Form and Space ........................3
ART 150 — Fundamentals of Ceramics ..........................3
ART 170 — Introduction to Sculpture ............................3
ART 190 — Beginning Printing, Etching and Relief ..........3
HIST 103 — History of Western Civilization ..................3
HIST 104 — History of Western Civilization .................3
HIST 113H — History of Western Civilization, 1600-Present, Honors ........................................3
HIST 135 — History of Mexico ....................................3

Note: A course may not be used to satisfy more than one requirement (double counting is not allowed).

Recommended Sequencing for Students Pursuing Studio Art:

First Semester Units
ART 103 — History of Art, Prehistoric to Gothic or ...........3
ART 103H — History of Art Prehistoric to Gothic, Honors
ART 120 — Fundamentals of Drawing ..........................3
ART 140 — 2D Design: Composition and Color or
   ART 141 — 3D Design: Form and Space ......................3

Total.........................................................9

Second Semester Units
ART 104 — History of Art, Renaissance to Modern or ........3
   ART 104H — History of Art, Honors ..........................4
ART 122 — Advanced Drawing or
   ART 140 — 2D Design: Composition and Color or
   ART 141 — 3D Design: Form and Space ......................3

Total.........................................................6-10

Third Semester Units
ART 102A — Early Twentieth Century Art
ART 130 — Fundamentals of Paint - Acrylics or
   ART 131 — Fundamentals of Oil Painting or
   ART 190 — Beginning Printing, Etching and Relief ........3
ART 150 — Fundamentals of Ceramics or
   ART 170 — Introduction to Sculpture ........................3

Total.........................................................9

Fourth Semester Units
ART 102B — Late Twentieth Century Art (Third semester)
ART 144 — 4D and New Genre Art-Making ........................3
ART 130 — Fundamentals of Paint - Acrylics or
   ART 131 — Fundamentals of Oil Painting or
   ART 190 — Beginning Printing, Etching and Relief ........3
ART 150 — Fundamentals of Ceramics or
   ART 170 — Introduction to Sculpture ........................3

Total.........................................................9

Highly recommended
ART 144 — 4D Art, Time-Based Media (Fourth semester)
FP 106 — Digital Editing Tools
MAT 103 — Introduction to Multimedia
MAT 131 — Digital Imaging I
PHOT 109 — Photo I

College Requirements
For complete information, see “Graduation Requirements” in the Catalog Index.

Requirements for AA-T Degree—Art History for Transfer
The field of art history covers a wide range of topics. The major is designed to give students exposure to basic information in the discipline and provide the opportunity to focus on the areas that best suit their individual needs. Students should consult with a departmental adviser and/or counselor when choosing both controlled and general electives in order to develop a program of study that is best suited
to their specific needs. For example, requirements for the Baccalaureate Degree in Art History vary from one institution to another. It is, therefore, essential to become familiar with the requirements of the institution a student plans to attend.

The Associate in Arts in Art History for Transfer Degree (AA-T in Art History) will provide the foundational knowledge in Art History to students who want to earn a Baccalaureate Degree in Art History at any of the CSU campuses.

Degree Requirements
Complete 60 CSU-transferable units including general education, major requirements and CSU-transferable electives as follows:

I. General Education
Complete one of the following patterns:
• Intersessional General Education Transfer Curriculum “IGETC” for CSU (34-40 semester units)
• California State University General Education Breadth pattern (39 semester units)

II. Major
Complete 18-21 units as outlined below with a “C” or better in each course. Pass/No Pass grading is not permitted in a course within a student’s major area of study. The courses completed for the major may also be used to fulfill General Education areas on the IGETC or the CSU GE Breadth.

Required Core (18-20.3 units)
ART 103* — History of Art, Prehistoric to Gothic or ........3
ART 104* — History of Art, Renaissance to Modern or ........3
ART 104H* — History of Art, Ren. to Modern, Honors .......4
ART 120* — Fundamentals of Drawing ...........................3

List A. Select one course from the following (3 units)
ART 108* — History of Asian Art .................................3
ART 111* — Survey of Tribal Arts ...............................3
ART 112* — Survey of Pre-Columbian Art ....................3
ART 215* — Survey of Non-Western Art .......................3
ART 216* — Survey of Islamic Art and Architecture .... 3
CHST 130* — History of Mexican Art .........................3
CHST 131* — History of Chicano Art .........................3
NATA 112* — Native American Visual and Musical Art .. 3

List B. Select one course from the following (3-3.3 units)
ART 101* — Visual Literacy .......................................3
ART 121 — Intermediate Drawing ...............................3

List C. Select one course from the following (3-5 units)*

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>ART 122 — Advanced Drawing</td>
<td>3</td>
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<tr>
<td>ART 123 — Figure and Portrait Drawing</td>
<td>3</td>
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<tr>
<td>ART 124A — Classical Animation I</td>
<td>3</td>
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<tr>
<td>ART 124B — Classical Animation II</td>
<td>3</td>
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<tr>
<td>ART 127 — Landscape Drawing</td>
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<td>ART 130 — Integrated Drawing and Painting</td>
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<tr>
<td>ART 131 — Fundamentals of Oil Painting</td>
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<td>ART 132 — Fundamentals of Painting</td>
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<tr>
<td>ART 133 — Intermediate Painting</td>
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<tr>
<td>ART 134 — Theory and Application in Painting</td>
<td>3</td>
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<tr>
<td>ART 135 — Figure and Portrait Painting</td>
<td>3.3</td>
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<tr>
<td>ART 140 — 2D Design: Composition and Color</td>
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<td>ART 141 — 3D Design: Form and Space</td>
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<tr>
<td>ART 150 — Fundamentals of Ceramics</td>
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<tr>
<td>ART 154 — Ceramic Sculpture</td>
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<tr>
<td>ART 170 — Introduction to Sculpture</td>
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<td>ART 190 — Introduction to Printmaking</td>
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<td>ART 191 — Intermediate Printmaking</td>
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<td>ART 192 — Advanced Printmaking</td>
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<tr>
<td>ART 193 — Beginning Printmaking: Silkscreen</td>
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<tr>
<td>ART 194 — Intermediate Printmaking: Silkscreen</td>
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<td>DRFT 124 — Architectural Rendering I</td>
<td>3</td>
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<tr>
<td>DRFT 125 — Architectural Rendering II</td>
<td>3</td>
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<tr>
<td>FP 275 — Production II: Narrative Filmmaking</td>
<td>3</td>
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<tr>
<td>GDP 113 — Typography</td>
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<td>GDP 114 — Graphic Design I</td>
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<td>GDP 212 — Graphic Design II</td>
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<td>ID 101 — Space Planning and Lighting</td>
<td>3</td>
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<td>MAT 112 — Digital Drawing</td>
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<td>MAT 136 — Computer Animation I</td>
<td>3</td>
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<tr>
<td>PHOT 109 — Photo I</td>
<td>3</td>
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</tbody>
</table>

Any course not taken in List A or B or

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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</table>
III. CSU-Transferable Electives
Complete as many units as needed to reach a total of 60 CSU-transferable units (for a list of SBCC-transferable courses to CSU, visit www.assist.org).

Additional Graduation Requirements for AA-T in Art History:
- Maintain a cumulative CSU-transferable GPA of 2.0.
- Residency Requirements: Candidates for an Associate Degree are expected to complete 15 semester units in residence at SBCC. Candidates for an Associate Degree are also expected to complete at least 20% of the department major requirements in residence at SBCC.

Requirements for AA-T Degree—Studio Art for Transfer
The field of studio art covers a wide range of topics. The major is designed to give students exposure to basic information in the discipline and provide the opportunity to focus on the areas that best suit their individual needs. Students should consult with a departmental adviser and/or counselor when choosing both controlled and general electives in order to develop a program of study that is best suited to their specific needs. For example, requirements for the Baccalaureate Degree in Studio Art vary from one institution to another. It is, therefore, essential to become familiar with the requirements of the institution a student plans to attend.

The Associate in Arts in Studio Art for Transfer Degree (AA-T in Studio Art) will provide the foundational knowledge in Studio Art to students who want to earn a Baccalaureate Degree in Studio Art at any of the CSU campuses.

Degree Requirements
Complete 60 CSU-transferable units including General Education, major requirements and CSU-transferable electives as follows:

I. General Education
Complete one of the following patterns:
- Intersegmental General Education Transfer Curriculum “IGETC” for CSU (38 semester units)
- California State University General Education Breadth pattern (40 semester units)

II. Major
Complete 24-26 units as outlined below with a “C” or better in each course. Pass/No Pass grading is not permitted in a course within a student’s major area of study. The courses completed for the major may also be used to fulfill General Education areas on the IGETC or the CSU GE Breadth.

Required Core (12-13 units)
ART 104* — Hist. of Art, Renaissance to Modern or ... 3
ART 104H* — Hist. of Art, Ren. to Modern, Honors .. 4
ART 120* — Fundamentals of Drawing ..................... 3
ART 140 — 2D Design: Composition and Color .......... 3
ART 141 — 3D Design: Form and Space .................. 3

List A. Select one course from the following (3 units)
ART 102A* — Early Twentieth-Century Art .................. 3
ART 103* — History of Art, Prehistoric to Gothic ........ 3
ART 106* — History of American Art ....................... 3
ART 108* — History of Asian Art ............................ 3
ART 111* — Survey of Tribal Arts .......................... 3
ART 215* — Survey of Non-Western Art ................... 3

List B. Select three courses from the following (9-10.6 units)
ART 121 — Intermediate Drawing or ....................... 3
ART 122 — Advanced Drawing or .......................... 3
ART 123 — Figure and Portrait Drawing or ............... 3
ART 127 — Landscape Drawing ............................. 3
ART 124A — Classical Animation I .......................... 3
ART 124B — Classical Animation II ........................... 3
ART 130 — Integrated Drawing and Painting or .......... 3
ART 131 — Fundamentals of Oil Painting or ................ 3
ART 132 — Fundamentals of Painting ....................... 3
ART 133 — Intermediate Painting ............................ 3
ART 134 — Theory and Application in Painting ........... 3
ART 135 — Figure Painting ................................. 3
ART 150 — Fundamentals of Ceramics ....................... 3
ART 151 — Intermediate Ceramics .......................... 3
ART 152 — Advanced Ceramics .............................. 3
ART 154 — Ceramic Sculpture ............................... 3
Preparation for Transfer

Course requirements for transfer vary depending upon the college or university a student wishes to attend. Therefore, it is most important for a student to consult with his/her counselor and departmental adviser before planning an academic program for transfer. Information sheets for majors, outlining transfer requirements, are available in the Counseling Center.

Honors and Awards

Each year, the Art Department exhibits outstanding student work in the Annual Student Art Exhibition. SBCC purchases work for its permanent collection and provides Best of Show and categorical awards. The department supports students in applying for diverse scholarships. The department also selects an Outstanding Art History Student and an Outstanding Art Studio Student each year.

“Focus on something you are doing so deeply that it acts like a magnet for those around you and they cannot continue to do what they are doing.”

—Dorothea Rockburne

Atkinson Gallery

Atkinson Gallery is SBCC’s showcase for the visual arts, located on the second floor of the Humanities Building, H-202. Atkinson Gallery currently hosts three exhibitions each academic year, closing out the year with the Annual Student Exhibition. Usually, at least two exhibitions of emerging artists are mounted annually.

Department Resources

Study Abroad

The Art Department participates in the Study Abroad Program and has been part of programs in Italy, the former Soviet Union, Cuba and France.

Honors Courses

ART 104H and ART 103H are Honors section for students enrolled in the SBCC Honors Program. See "Honors" section of this Catalog.

Field Trips

The Art Department sponsors field trips to major Southern California museums and galleries as adjunct support for its curriculum.
Internships, Student Participation in Clubs and Exhibitions
The Art Department is supportive of student needs and accomplishments. The Department encourages students to participate in student art exhibitions, including the Annual Student Exhibition held in April and May. The department also employs students as work-study staff, tutors, studio lab assistants, and offers internships in the Art Gallery and Image Resource Center.

“As you build confidence constructing your vision through affirmation of its process, you discover more ideas. The ideas become stronger and dominate the process.”

—Brian Hunt

Art Courses

ART 101 — Visual Literacy
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 lecture
Study of the language, methods, materials and meaning of visual imagery, as found in the visual arts. Role and meaning of visual images in society, both historical and contemporary, are surveyed.

ART 102A — Early Twentieth Century Art, 1900-1945
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 lecture
Survey of major styles and innovations in art during the first half of the 20th century. Emphasis is on the historical, cultural, and ideological context of modernism. Focus is also on awareness of the sequence and significance of modern art.

ART 102B — Late Twentieth Century Art
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 lecture
Introduction to developments in art of the late 20th century and their theoretical basis. Exploration of the historical, social, cultural and ideological contexts of art made after World War II to the end of the century.

ART 103 — History of Art, Prehistoric to Gothic
(3) — CSU, UC*
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Survey of art from prehistoric times through the Gothic period, and an examination of its cultural and conceptual context. (*UC Transfer Limit: ART 103 and 103H combined: maximum credit, one course)

ART 103H — History of Art, Prehistoric to Gothic, Honors
(3) — CSU, UC*
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Survey of art from prehistoric times through the Gothic period, and an examination of its cultural and conceptual contexts. (*UC Transfer Limit: ART 103 and 103H combined: maximum credit, one course)

ART 104 — History of Art, Renaissance to Modern
(3) — CSU, UC*
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Survey of art from 1300 to the end of the 20th century (the Renaissance to Post Modernism), and an examination of its cultural and conceptual context. (*UC Transfer Limit: ART 104 and 104H combined: maximum credit, one course)

ART 104H — History of Art, Renaissance to Modern, Honors
(3) — CSU, UC*
Skills Advisories: Eligibility for ENG 110 or 110H
Limitation on Enrollment: Honors Program Acceptance (See “Honors Program” section of this Catalog)
Hours: 72 lecture
Survey of the history of Western art, its styles and cultural contexts, from the Renaissance to the present. (*UC Transfer Limit: ART 104H and 104 combined: maximum credit, one course)

ART 106 — History of American Art
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 lecture
Study of American painting, sculpture, architecture, decorative arts and photography from Colonial times to the present. Traces the influences on American art
from European sources, and surveys the variety of styles which the United States has experienced.

**ART 108 — History of Asian Art**  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture

Introduction to the painting, architecture and crafts of India, Southeast Asia, China, Korea and Japan. Overview of the relationship of artistic, cultural and historical events in both East and West, stressing exchange of influences and ideas.

**ART 110 — History of Women in Art**  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 54 lecture

History of women in art. The study of the roles and contributions of women in art as artists, patrons and subjects of the male gaze.

**ART 111 — Survey of Tribal Arts**  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 54 lecture

Overview of the traditional arts of African tribes and kingdoms of Oceania and Australia, and of Native Americans located north of Rio Grande River; their painting, sculpture, masks, ritual objects and architecture.

**ART 112 — Survey of Pre-Columbian Art**  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 54 lecture

Introduction to the art of Pre-Columbian Meso-America and Andean South America. Major monuments examined in their cultural contexts.

**ART 113— Survey of Architecture**  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 54 lecture

Overview of architecture, structural systems and urban design, from ancient civilizations to the present day.

**ART 114 — History of Photography**  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 54 lecture

Overview of the history of photography from 1839 to the present. Organized in a topical framework, course examines the development of photography, its role in visual communication and artistic expression, as well as its contribution to the visual arts. Technological developments and individual photographers are also discussed.

**ART 119— Investigating the Art World**  
(2) — CSU  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 72 (18 lecture, 54 lab)

Lecture, onsite and in-class investigation of the inner workings of museums, galleries, studios and other cultural institutions. Students will spend a concentrated amount of time in Los Angeles to gain insight into the inner workings of the contemporary art world.

**ART 120 — Fundamentals of Drawing**  
(3) — CSU, UC  
Hours: 90 (36 lecture, 54 lab)

Basic principles of drawing studied through the use of many media, with emphasis on dark and light, perspective and rendering.

**ART 121 — Intermediate Drawing**  
(3) — CSU, UC  
Prerequisites: ART 120  
Skills Advisories: Eligibility for ENG 98 and 103  
Course Advisories: ART 101  
Hours: 90 (36 lecture, 54 lab)

Study of formal and conceptual problems related to intermediate level drawing. Art criticism, theory, abstraction and contemporary concerns are introduced. Primarily black and white media are employed, with an introduction to color media.

**ART 122 — Advanced Drawing**  
(3) — CSU, UC  
Prerequisites: ART 120 and 121  
Skills Advisories: Eligibility for ENG 98 and 103  
Course Advisories: ART 101  
Hours: 90 (36 lecture, 54 lab)

Study of formal and conceptual problems related to advanced-level drawing. Art criticism, theory, abstraction and contemporary concerns are further investigated. Both black and white media, as well as color media, are employed.
ART 123 — Figure and Portrait Drawing  
(3) — CSU, UC  
Prerequisites: ART 120  
Skills Advisories: Eligibility for ENG 98 and 103  
Course Advisories: ART 101  
Hours: 90 (36 lecture, 54 lab)  
Basic course in drawing the figure supported by study of artistic anatomy; emphasis on drawing as information-gathering; use of black and white media.

ART 124A — Classical Animation I  
(3) — CSU  
Skills Advisories: Eligibility for ENG 98 and 103  
Course Advisories: ART 120 and 140  
Hours: 90 (36 lecture, 54 lab)  
Basic principles of animation studied through drawing and other media. Includes analytical understanding and depiction of movement of things and natural life forms in the real world.

ART 124B — Classical Animation II  
(3) — CSU  
Prerequisites: ART 124A  
Skills Advisories: Eligibility for ENG 98 and 103  
Course Advisories: ART 120 and 140  
Hours: 90 (36 lecture, 54 lab)  
Further study and application of animation principles through drawing, with emphasis on character development, timing, action analysis, complex movement and the filmmaking process.

ART 127 — Landscape Drawing  
(3) — CSU, UC  
Prerequisites: ART 120  
Skills Advisories: Eligibility for ENG 98 and 103  
Course Advisories: ART 101 and 140  
Hours: 72 (54 lecture, 18 lab)  
An in-depth study of drawing places and spaces. Students work onsite in and around the Santa Barbara area, as well as in the studio. Detailed studies are achieved through various drawing exercises.

ART 130 — Integrated Drawing and Painting  
(3.3) — CSU, UC  
Prerequisites: ART 120 or 140 or 132  
Skills Advisories: Eligibility for ENG 98 and 103  
Course Advisories: ART 101  
Hours: 72 (54 lecture, 18 lab)  
Studio course working with across the traditional borders of drawing and painting. Students will be given assignments focused on encouraging use of a variety of media, format and approach.

ART 131 — Fundamentals of Oil Painting  
(3) — CSU, UC  
Prerequisites: ART 120 and 140  
Skills Advisories: Eligibility for ENG 98 and 103  
Course Advisories: ART 101  
Hours: 90 (36 lecture, 54 lab)  
Continuation of ART 130 in the oil medium, with additional emphasis on the painting process.

ART 132 — Fundamentals of Painting  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 98 and 103  
Course Advisories: ART 101  
Hours: 90 (36 lecture, 54 lab)  
Introduction to the foundation elements of painting. Focus on developing bedrock craft, technical and theoretical skill.

ART 133 — Intermediate Painting  
(3) — CSU, UC  
Prerequisites: ART 130 or 131 or 132  
Skills Advisories: Eligibility for ENG 98 and 103  
Course Advisories: ART 101  
Hours: 90 (36 lecture, 54 lab)  
Principles of more complex compositions using oil or acrylic medium, emphasizing the creative attitude and different techniques.

ART 134 — Theory and Application in Painting  
(3) — CSU, UC  
Prerequisites: ART 133 and/or 137  
Skills Advisories: Eligibility for ENG 98 and 103  
Course Advisories: ART 101  
Hours: 90 (36 lecture, 54 lab)  
Explores contemporary and historical art theory and methods of incorporating it into a student’s studio practice.

ART 135 — Figure and Portrait Painting  
(3.3) — CSU, UC  
Prerequisites: ART 132 or 140  
Skills Advisories: Eligibility for ENG 98 and 103  
Course Advisories: ART 101  
Hours: 72 (54 lecture, 18 lab)
Painting course concentrating on the figure, portraiture and narrative painting incorporating the human form. Students will paint from a model, direct observation, drawing and photography.

**ART 137 — Advanced Painting**  
(3) — CSU, UC  
**Prerequisites:** ART 132  
**Corequisites:** ART 140  
**Skills Advisories:** Eligibility for ENG 98 and 103  
**Course Advisories:** ART 101  
**Hours:** 90 (36 lecture, 54 lab)  
Exposes students to a variety of approaches and techniques of painting, while significantly increasing their exposure to contemporary and historical artists and ideas. A range of structured and open-ended assignments will be the dominant format of the course. Emphasis will be placed on expanding the skill set of each student.

**ART 140 — 2D Design: Composition and Color**  
(3) — CSU, UC  
**Skills Advisories:** Eligibility for ENG 98 and 103  
**Hours:** 90 (36 lecture, 54 lab)  
Beginning course in 2D design, fundamentals of composition and color. Theory and application of image-making.

**ART 141 — 3D Design: Form and Space**  
(3) — CSU, UC  
**Skills Advisories:** Eligibility for ENG 98 and 103  
**Hours:** 90 (36 lecture, 54 lab)  
Beginning course in three-dimensional design. Introduction to form, structure, the elements of design and three-dimensional design theory. Includes an exploration of various materials and techniques, with emphasis on the creative process.

**ART 144 — 4D Art, Time-Based Media**  
(3) — CSU, UC  
**Skills Advisories:** Eligibility for ENG 98 and 103  
**Hours:** 90 (36 lecture, 54 lab)  
Explores issues and practices of time-based art: interactive and chance-derived work, installation, performance, video, sound and digital media. Studio projects are combined with related critical theory and historical and emerging developments in the field.

**ART 149 — Intermediate 4D Art, Time-Based Media**  
(3) — CSU, UC  
**Prerequisites:** ART 144  
**Skills Advisories:** Eligibility for ENG 98 and 103  
**Hours:** 90 (36 lecture, 54 lab)  
Intermediate level course exploring issues and practices of time-based art: interactive and chance-derived work, installation, performance, video, sound and digital media.

**ART 150 — Fundamentals of Ceramics**  
(3) — CSU, UC  
**Skills Advisories:** Eligibility for ENG 98 and 103  
**Course Advisories:** ART 101 and 141  
**Hours:** 90 (36 lecture, 54 lab)  
Introductory course on the techniques employed in working with clay. Topics include wheel throwing, hand-building, engobe and glaze application.

**ART 151 — Intermediate Ceramics**  
(3) — CSU, UC  
**Prerequisites:** ART 141 and 150  
**Skills Advisories:** Eligibility for ENG 98 and 103  
**Course Advisories:** ART 101  
**Hours:** 90 (36 lecture, 54 lab)  
Continuation of ART 150 in ceramics. Expanding the skills in forming techniques, wheel throwing and slab construction. Various glaze applications. Exploration of surface treatments: intaglio, sgraffito, majolica, mishima, wax resist. Rakus and other firing techniques also covered.

**ART 152 — Advanced Ceramics**  
(3) — CSU, UC  
**Prerequisites:** ART 151  
**Skills Advisories:** Eligibility for ENG 98 and 103  
**Course Advisories:** ART 101  
**Hours:** 90 (36 lecture, 54 lab)  
Continuation of ART 151. Designed for students interested in developing a personal style in their work. Advanced wheel-throwing techniques, glaze application and formulation. Includes theory and practical application of kiln operation, electric and gas fired, oxidation and reduction.
ART 154 — Ceramic Sculpture
(3) — CSU, UC
Prerequisites: ART 141 and 150 with a minimum grade of “C”
Skills Advisories: Eligibility for ENG 98 and 103
Course Advisories: ART 101
Hours: 90 (36 lecture, 54 lab)
Introduction to three-dimensional and relief sculptural forms. Emphasis on learning sound fundamental skills of clay forming, design, surface treatment and firing practices, as applied to aesthetic and conceptually-based projects.

ART 155 — Glaze Formulation
(3) — CSU, UC
Prerequisites: ART 151
Skills Advisories: Eligibility for ENG 98 and 103
Course Advisories: ART 101
Hours: 100 (36 lecture, 54 lab)
Introduction to principles, techniques and materials used in the formulation of high temperature clay bodies and ceramic glazes.

ART 158 — Advanced 4D Art, Time Based Media
(3) — CSU, UC
Prerequisites: ART 149 with a minimum grade of “C”
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 90 (36 lecture, 54 lab)
Advanced-level course exploring issues and practices of time-based art, interactive and chance-derived work, installation, performance, video, sound and digital media.

ART 170 — Introduction to Sculpture
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 98 and 103
Course Advisories: ART 101 and 120 and 141
Hours: 90 (36 lecture, 54 lab)
Introduction to the materials, tools and techniques of sculpture. Fundamentals of sculpture production explored, including methods of carving, construction and casting.

ART 171 — Intermediate Sculpture
(3) — CSU, UC
Prerequisites: ART 141 and 170
Skills Advisories: Eligibility for ENG 98 and 103
Course Advisories: ART 101
Hours: 90 (36 lecture, 54 lab)
Continuation of ART 170. Studies and projects in lasting materials and the use of power tools. Three-dimensional aesthetics and problem-solving techniques included.

ART 172 — Advanced Sculpture
(3) — CSU, UC
Prerequisites: ART 171
Skills Advisories: Eligibility for ENG 98 and 103
Course Advisories: ART 101
Hours: 90 (36 lecture, 54 lab)
Includes the generation of unique individual projects, from conception to formal presentation. Relying on foundation courses, emphasis is on three-dimensional, problem-solving aesthetics.

ART 173 — Beginning Casting
(3) — CSU
Prerequisites: ART 171
Skills Advisories: Eligibility for ENG 98 and 103
Course Advisories: ART 101
Hours: 90 (36 lecture, 54 lab)
Introduction to a variety of casting techniques and sculptural relationships. Covers all steps of the casting process, but concentrates on the early stages of casting. Possible casting techniques to include plaster, wax, ceramic and poured metals.

ART 174 — Beginning Bronze Casting
(3) — CSU
Prerequisites: ART 173
Skills Advisories: Eligibility for ENG 98 and 103
Course Advisories: ART 101
Hours: 90 (36 lecture, 54 lab)
Introduction to traditional bronze casting techniques, particularly the early stages of casting—wax working, gating, investment processes, furnace procedures and metal pouring.

ART 175 — Intermediate Bronze Casting
(3) — CSU
Prerequisites: ART 174
Skills Advisories: Eligibility for ENG 98 and 103
Course Advisories: ART 101
Hours: 90 (36 lecture, 54 lab)
Focuses on the sculptural applications of casting. More challenging casting problems approached. Covers all steps of the process, but concentrates on the later
stages of casting—metal pouring, divestment, chasing, finish and patination.

**ART 176 — Advanced Bronze Casting**  
(3) — CSU  
**Prerequisites:** ART 175  
**Skills Advisories:** Eligibility for ENG 98 and 103  
**Course Advisories:** ART 101  
**Hours:** 90 (36 lecture, 54 lab)  
Focuses on the advanced sculptural applications of casting. More challenging casting problems researched. Contemporary and experimental casting techniques explored.

**ART 177 — Beginning Aluminum Casting**  
(3) — CSU  
**Prerequisites:** ART 173  
**Skills Advisories:** Eligibility for ENG 98 and 103  
**Course Advisories:** ART 101  
**Hours:** 90 (36 lecture, 54 lab)  
Introduction to aluminum casting techniques used in the formal development of a sculptural image. Covers all steps of the process, but concentrates on the early stages of casting—mold making, wax working, gating, investment processes, furnace procedures and metal pouring.

**ART 179 — Advanced Aluminum Casting**  
(3) — CSU  
**Prerequisites:** ART 177  
**Skills Advisories:** Eligibility for ENG 98 and 103  
**Course Advisories:** ART 101  
**Hours:** 90 (36 lecture, 54 lab)  

**ART 181 — Intermediate Sculpture Fabrication**  
(3) — CSU  
**Prerequisites:** ART 180  
**Skills Advisories:** Eligibility for ENG 98 and 103  
**Course Advisories:** ART 101  
**Hours:** 90 (36 lecture, 54 lab)  
Explores a variety of assemblage techniques and materials, including wood assemblage and welding.

**ART 182 — Advanced Sculpture Fabrication**  
(3) — CSU  
**Prerequisites:** ART 181  
**Skills Advisories:** Eligibility for ENG 98 and 103  
**Course Advisories:** ART 101  
**Hours:** 90 (36 lecture, 54 lab)  
Concentration on sculpture fabrication. Covers advanced techniques and materials, including MIG and TIG welding.

**ART 189 — Introduction to Exhibition Practices**  
(3) — CSU  
**Skills Advisories:** Eligibility for English 110, 110H  
**Course Advisories:** ART 101, 140, 141  
**Hours:** 72 (45 lecture, 27 ab)  
Provides an introduction to exhibition practices for both gallerists and artists, including the basic skills of exhibition planning (proposal to design), installation (hanging, lighting, labeling), marketing and budgeting. Gallery practicum and field trips are required.

**ART 190 — Introduction to Printmaking**  
(3) — CSU, UC  
**Skills Advisories:** Eligibility for ENG 98 and 103  
**Course Advisories:** ART 101 and 120 and 140  
**Hours:** 90 (36 lecture, 54 lab)  
Introduction to printmaking: history, methods, materials in relief, intaglio, planographic and contemporary practices.

**ART 191 — Intermediate Printmaking**  
(3) — CSU, UC  
**Prerequisites:** ART 190  
**Corequisites:** ART 140  
**Skills Advisories:** Eligibility for ENG 98 and 103  
**Course Advisories:** ART 101 and/or 120  
**Hours:** 90 (36 lecture, 54 lab)  
Expanded study of the processes covered in ART 190, with the introduction of multiple-layer and mixed-media printmaking. Readings related to theoretical application of print in fine art will be covered.
ART 192 — Advanced Printmaking
(3) — CSU, UC
Prerequisites: ART 191
Skills Advisories: Eligibility for ENG 98 and 103
Course Advisories: ART 101 and/or 120
Hours: 90 (36 lecture, 54 lab)
Continuation of the printmaking processes covered in ART 191. Students choose their own advanced print process in response to each assignment. Processes include multiple-color intaglio, relief and silkscreen. Experimental forms of multimedia printmaking are introduced. An artist statement related to the print work to be written at the beginning and end of the course.

ART 193 — Beginning Printmaking: Silkscreen
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 98 and 103
Course Advisories: ART 101 and 120 and 140
Hours: 90 (36 lecture, 54 lab)
Introduction to techniques used in making silkscreens; Photographic and non-photographic stencil processes employed.

ART 194 — Intermediate Printmaking: Silkscreen
(3) — CSU, UC
Prerequisites: ART 193
Skills Advisories: Eligibility for ENG 98 and 103
Course Advisories: ART 101 and 103
Hours: 90 (36 lecture, 54 lab)
Expansion of the silkscreen processes covered in ART 193. Expands the exploration of the technique to include mixed-process silkscreen prints and sculptural screen printing techniques.

ART 195 — Printmaking, Theory and Application
(3) — CSU, UC
Prerequisites: ART 192
Skills Advisories: Eligibility for ENG 98 and 103
Course Advisories: ART 101
Hours: 90 (36 lecture, 54 lab)
Introduction to a theory-based approach to contemporary printmaking and a continued study of technique. Readings, lecture and discussion are used to guide the creation of portfolio artwork, with emphasis on the conceptual territory of the medium.

ART 198 — Artists’ Books
(3) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Course Advisories: ART 102A and 140
Hours: 90 (36 lecture, 54 lab)
Studio theory and practice of making small-edition multiple and unique artists’ books.

ART 199 — Collage
(3) — CSU, UC
Skills Advisories: ENG 98 and 103
Course Advisories: ART 102A and 140
Hours: 90 (36 lecture, 54 lab)
Investigation of collage as a contemporary fine art medium. Techniques explored in a variety of assignments that use scavenged, found and appropriated materials. Lectures explain the development and spread of collage and demonstrate its importance in the art of the 20th and 21st centuries.

ART 210 — Survey of Renaissance and Baroque Art
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 lecture
Survey of the evolution of major styles, meanings, iconography and innovations in art during the Renaissance and Baroque periods, with investigation of the social, cultural, political and philosophical contexts of the art. Emphasis on the interdisciplinary aspects of expressive behavior during these periods.

ART 211 — Nineteenth Century Art
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 lecture
Surveys European and American art of the 19th century and artistic innovations that defined modernism and the avant-garde. Historical context of art, including democracy, worker’s rights, suffrage, and abolition are highlighted. Romanticism, Realism, Impressionism and Post-Impressionism style periods are surveyed.

ART 215 — Survey of Non-Western Art
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 lecture
Introduction to the art produced by the non-European world. International survey of the art of Asia (India,
China, Japan), Pre-Columbian Meso and South America, Native North America, Africa and Oceania (the South Seas).

**ART 216 — Survey of Islamic Art and Architecture (3) — CSU, UC**  
*Skills Advisories: Eligibility for ENG 98 or 103 or 110 or 110H  
*Hours: 54 lecture*

Survey of Islamic art and architecture from Asia to North Africa and Spain, from the era of Muhammad, 19th century C.E. Considers the regional artistic manifestations of the vast Islamic world. Analyzes how intercultural relations between Europe and the Islamic world have influenced both spheres of art.

**ART 299 — Independent Study in Art (1-4) — CSU**  
*Skills Advisories: Eligibility for ENG 110 or 110H  
*Limitation on Enrollment: 6 units of Art courses completed with a 3.0 or higher GPA; minimum of 12 units of course work complete at SBCC, with GPA of at least 2.5  
*Hours: 48-92 lab*

Student works under guidance and direction of sponsoring faculty member on project consistent with interests and abilities. Minimal weekly meetings with faculty sponsor required. Course may be taken for one to four units of credit; each unit of credit requires student to devote approximately three hours per week to his/her project. (*UC transfer limit: 299 computed as Independent Study; see counselor)*

**Exhibit and Display Design Courses**

**EXBT 100 — Introduction to Exhibit and Display Design (3) — CSU**  
*Corequisites: Prior or concurrent enrollment in ART 129A  
*Skills Advisories: Eligibility for ENG 98  
*Hours: 90 (36 lecture, 54 lab)*

Introduction to creating exhibits, from conceptualization through design development and presentation. Students apply principles and criteria specific to organizing and conveying information in exhibit environments. Students demonstrate their understanding of these exhibit principles through project proposals that include models, presentation drawings and other design materials.

**EXBT 101 — Exhibit and Display Design II (1.3) — CSU**  
*Prerequisites: EXBT 100  
*Hours: 72 lab*

Continuation of EXBT 100. Focuses on construction methods and materials used in the exhibit and display design industry. Materials range from alloys, aluminum extrusions, wood/laminate composites, Plexiglas, modular systems, tension fabrics, “green materials” and advanced lightweight materials, including carbon/fiber construction. Offers an incubator for real-world experiences in the fabrication of exhibits, retail displays, museum displays and tradeshows.

**EXBT 102 — Exhibit Design Master Class I (1.3) — CSU**  
*Prerequisites: EXBT 101  
*Hours: 72 lab*

Advanced fabrication of exhibits and displays for continuing students who have taken EXBT 100 and 101. Provides real-world work experience in fabricating exhibits, retail displays, museum displays, stands and informational graphic treatments. Engages the exhibit designer in the principles of exhibit construction systems (e.g. Octanorm, Modul, Lasarhoeven, etc.), blueprint reading, lighting design, interface design, audio/video and multimedia integration, and interpersonal communication.

**EXBT 103 — Exhibit Design Master Class II (1.3) — CSU**  
*Prerequisites: EXBT 102  
*Hours: 72 lab*

In-depth study of exhibit construction systems, blueprint reading, lighting, audio/video and multimedia integration and interpersonal communication. Introduces aspects of project management, cost estimation and budgeting. Projects are constructed from inception to display in a team environment.
Automotive Service and Technology

Degrees and Certificates
Associate in Science Degree: Automotive Service and Technology
Certificate of Achievement: Automotive Service and Technology

Program Description
The automotive industry has long recognized the need for skilled, highly trained service technicians. The consumer movement has turned that need into a demand. Today's automobile is a sophisticated, complex machine which requires skilled technicians to keep it running smoothly.

Santa Barbara City College offers two programs in Automotive Service and Technology. It also offers updated auto skills, retraining and entry-level job courses, all offered for lifelong careers with good pay and working conditions and a chance to advance in the exciting high-tech automotive industry.

The Automotive program has been certified by the National Institute for Automotive Service Excellence (ASE) as a "Master" training institution, having met strict industry standards in all eight of the automotive specialty areas. The eight areas of ASE specialization are Engine Repair, Engine Performance, Heating and Air Conditioning, Electrical Systems, Automatic Transmissions, Manual Transmission and Axle, Brakes and Front End.

Program Student Learning Outcomes

Automotive Certificate of Achievement
1. Students will develop skills to advance their knowledge as automotive technicians.
2. Students will conduct themselves on the job as professionals, including practicing safety precautions to prevent accidents.
3. Students will become lifelong learners and advocates for the automotive industry.

Automotive Services and Technology Degree
1. Students will develop skills to advance their knowledge as automotive technicians.
2. Students will conduct themselves on the job as professionals, including practicing safety precautions to prevent accidents.
3. Students will become lifelong learners and advocates for the automotive industry.

Department Offices
Division: Technologies
David Brainerd, Chair (A-123, ext. 2220)
Alan Price, Dean (A-218, ext. 3044)

Faculty and Offices
David Brainerd (A-123, ext. 2220)
Russell Granger
Robert Stockero (A-178, ext. 2836)

Requirements for AS Degree: Automotive Service and Technology
The Associate Degree will be awarded upon completion of both department and college requirements.

Department Requirements (43.2 units)
AUTO 101 — Introduction to Auto Mechanics .................. 3
AUTO 110 — Fundamentals of Auto Servicing ................. 3
AUTO 111 — Engine Rebuilding .................................. 7
AUTO 112 — Brakes, Suspension and Steering ............... 4.6
AUTO 113 — Auto Fuel and Air Conditioning Systems .... 4.6
AUTO 114 — Automotive Power Train .......................... 7
AUTO 115 — Automotive Electricity ............................ 7
AUTO 116 — Engine Performance .............................. 7

Recommended Electives:
AUTO 102 — Basic Car Care, Maintenance and Repair .... 3
AUTO 207 — Smog Check Technician Update .............. 1
AUTO 217 — Automotive Specialty I ......................... 2
AUTO 218 — Automotive Specialty II ....................... 3
CNEE 219 — Adv Auto Electronics .......................... 4
AUTO 290 — Work Experience .................................. 2-4

Complete each required course with a minimum grade of "C".

College Requirements
For complete information, see “Graduation Requirements” in the Catalog Index.
Sample Program of Study: AS Degree
(Two Years)

First Semester  Units
AUTO 101 — Introduction to Auto Mechanics .......... 3
AUTO 111 — Engine Rebuilding .......................... 7
*MATH 95 or higher ........................................... 4
*ENG 110/120 — Composition and Reading or
  *ENG 110H — Composition and Reading, Honors .... 4
  Total .................................................. 18

Second Semester  Units
AUTO 110 — Fundamentals of Auto Servicing ............ 3
AUTO 114 — Auto Power Train (Fall Semester) or
  AUTO 115 — Auto Electricity (Spring Semester) ..... 7
*Lab Science .................................................. 4
*Oral Communication ....................................... 3
*Physical Education ......................................... 1
  Total .................................................. 18

Third Semester  Units
AUTO 113 — Auto Fuel and Air Cond Systems (Fall) or
  AUTO 112 — Brakes, Suspension and Steering .......... 4.6
AUTO 116 — Engine Performance ........................ 7
*History or Political Science ............................... 3
*Physical Education ......................................... 1
  Total .................................................. 15.6-18.6

Fourth Semester  Units
Take course(s) not yet completed:
AUTO 113 — Auto Fuel and Air Cond. Systems (Fall) or
  AUTO 112 — Brakes, Suspension and Steering (Spring) .... 4.6
AUTO 114 — Auto Power Train (Fall) or
  AUTO 115 — Auto Electricity (Spring) ................. 7
*Humanities/Multicultural .................................... 3
Take one of the following:
**AUTO 217 or 218 — Auto Specialty I or II .......... 2-3
**AUTO 290 — Work Experience .......................... 2-4
  Total .................................................. 14-18.6

*General Ed. Requirements: See this Catalog for complete course listings.

**Recommended but not required for either Certificate of Achievement or AS Degree.

Requirements for Certificate of Achievement:
Automotive Service and Technology

Department Requirements (43.2 units)
AUTO 101 — Introduction to Auto Mechanics .......... 3
AUTO 110 — Fundamentals of Auto Servicing .......... 3
AUTO 111 — Engine Rebuilding .......................... 7
AUTO 112 — Brakes, Suspension and Steering .......... 4.6
AUTO 113 — Auto Fuel and Air Conditioning Systems .... 4.6
AUTO 114 — Automotive Power Train .................... 7
AUTO 115 — Automotive Electricity ........................ 7
AUTO 116 — Engine Performance ........................ 7

Recommended Electives:
AUTO 102 — Basic Car Care, Maintenance and Repair .... 3
AUTO 207 — Smog Check Technician Update ............. 1
AUTO 217 — Automotive Specialty I ..................... 2
AUTO 218 — Automotive Specialty II ..................... 3
CNEE 219 — Advanced Auto Electronics .................. 4
AUTO 290 — Work Experience ............................. 2-4

Complete each required course with a minimum grade of “C”.

Sample Program of Study: Certificate
(One Year)

First Semester  Units
AUTO 101 — Introduction to Auto Mechanics .......... 3
AUTO 110 — Fundamentals of Auto Servicing .......... 3
AUTO 111 — Engine Rebuilding .......................... 7
AUTO 112 — Brakes, Suspension and Steering .......... 4.6
AUTO 113 — Auto Fuel and Air Cond Systems or
  AUTO 112 — Brakes, Suspension and Steering .......... 4.6
  Total .................................................. 17.6

Second Semester  Units
AUTO 114 — Auto Power Train (Fall Semester) or
  AUTO 115 — Auto Electricity (Spring Semester) ..... 7
AUTO 116 — Engine Performance ........................ 7
The following course is recommended (not required):
AUTO 290 — Work Experience........................................ 2-4
Total.................................................. 14-18

Third Semester

Take course(s) not yet completed:
AUTO 113 — Fuel Mgmt and Air Cond Systems or
AUTO 112 — Brakes, Suspension and Steering.............. 4.6
AUTO 114 — Auto Power Train (fall semester) or .......... 7
AUTO 115 — Auto Electricity........................................ 4

The following courses are recommended (not required):
AUTO 217 — Auto Specialty I or................................. 2
AUTO 218 — Auto Specialty II .................................... 3
AUTO 290 — Work Experience.................................... 2-4
Total................................................ 11.6-18.6

Program Cost and Outcome
For planning purposes, the webpage below provides information on the cost of attendance, program length (assuming a student attends full-time), financing options and historical student completion rates:

Automotive Services Courses
AUTO 101 — Introduction to Auto Mechanics
(3) — CSU
Skills Advisories: Eligibility for ENG 103
Hours: 54 lecture
Lecture/demonstration course introducing the operation and maintenance of the modern automobile and shop safety. The basic operating systems covered are the cooling, brake, steering, suspension, drivetrain and air conditioning systems.

AUTO 102 — Basic Car Care, Maintenance and Repair
(3) — CSU
Skills Advisories: Eligibility for ENG 103
Hours: 90 (36 lecture, 54 lab)
Introductory study and practice in basic car care, maintenance and repair. Students gain laboratory experience, performing service and minor repairs.

AUTO 110 — Fundamentals of Automotive Servicing
(3) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Course Advisories: AUTO 101, concurrently
Hours: 90 (36 lecture, 54 lab)
Introductory lecture/lab course covering maintenance and diagnostic procedures used in the automotive service industry. Lab exercises cover maintenance and service areas of engine lubrication, underhood, undercar, tire and wheel, cooling system, belts and hoses, fuel system, battery and electrical system, brakes and wheel bearings.

AUTO 110A — Fundamentals of Automotive Servicing
(3) — CSU
Hours: 90 (36 lecture, 54 lab)
Introductory lecture/lab course covering maintenance and diagnostic procedures used in the automotive service industry. Emphasis is on lubrication, underhood and undercar inspections, electrical systems service, fuel and ignitions systems service, and computer control diagnosis.

AUTO 110B — Fundamentals of Automotive Servicing
(3) — CSU
Hours: 90 (36 lecture, 54 lab)
Introductory lecture/lab course covering maintenance and diagnostic procedures used in the automotive service industry. Emphasis is on lubrication, underhood and undercar inspections, electrical systems service, fuel and ignitions systems service, and computer control diagnosis.
AUTO 111 — Engine Rebuilding
(7) — CSU
Skills Advisories: Eligibility for ENG 103
Course Advisories: AUTO 101 and 110 with minimum grade of “C”
Hours: 216 (81 lecture, 135 lab)
Lecture/lab course on generic theory and repair of automotive engines. The valve train and lower end assemblies are covered in detail. Engine problem diagnosis, service and repair, engine rebuilding and machining, and performance enhancement emphasized.

AUTO 112 — Brakes, Suspension and Steering
(4.6) — CSU
Skills Advisories: Eligibility for ENG 103
Course Advisories: AUTO 101 and 110
Hours: 144 (54 lecture, 90 lab)
Principles of brakes, suspension, steering systems, wheel alignment and tire service. Includes disc and drum brakes, brake power assist units, anti-lock braking, tire service, wheel balancing, and wheel alignment. Live vehicle laboratory study of lecture material. NATEF-certified course.

AUTO 113 — Automotive Fuel and Air Conditioning Systems
(4.6) — CSU
Skills Advisories: Eligibility for ENG 103
Course Advisories: AUTO 101 and 110
Hours: 144 (54 lecture, 90 lab)
Principles of automotive fuel supply systems, carburetion, fuel injection heating, ventilation and air conditioning (HVAC) systems. Live vehicle repair in lab. NATEF-certified course.

AUTO 114 — Automotive Power Train
(7) — CSU
Prerequisites: AUTO 111 with minimum grade of “C”
Skills Advisories: Eligibility for ENG 103
Course Advisories: AUTO 101 and 110
Hours: 216 (81 lecture, 135 lab)
Principles of the automotive power train, including the clutch, standard and automatic transmissions and transaxles, C/V joints, drive shafts and differentials. NATEF-certified course.

AUTO 115 — Automotive Electricity
(7) — CSU
Skills Advisories: Eligibility for ENG 103; proficiency in MATH 1
Prerequisites: AUTO 101 and 110
Hours: 216 (81 lecture, 135 lab)
Study of the complete automotive electrical system, including theory, the battery, starting system, charging system, wiring, lighting and body electrical systems. Theory of operation covered in lecture; testing, diagnosis and repair applied in lab. NATEF-certified course.

AUTO 116 — Engine Performance
(7) — CSU
Skills Advisories: Eligibility for ENG 103
Course Advisories: AUTO 101 and 110
Hours: 216 (81 lecture, 135 lab)
Principles of engine performance diagnosis and maintenance, ignition and emission controls. Drivability, vehicle emissions and fuel economy concerns also addressed. Lab study includes engine condition testing, ignition system testing, emission testing and electronic scan tools.

AUTO 207 — Smog Check Technician Update
(1.0)
Hours: 18 lecture
The California Bureau of Auto Repair requires this course for anyone applying for an EA or EB smog check license. It is also required by the BAR as update training for anyone interested in renewing a smog check license.

AUTO 217 — Automotive Specialty I
(2)
Prerequisites: AUTO 112 or 113 or 114 or 115
Skills Advisories: Eligibility for ENG 98
Hours: 108 lab
Designed to further increase the skill and knowledge of the student in the ASE (Automotive Service Excellence) specialty area(s) of choice, working to trade standards. The eight areas of ASE specialization are Engine Repair, Engine Performance, Heating and Air Conditioning, Electrical Systems, Automatic Transmissions, Manual Transmission and Axle, Brakes and Front End.
AUTO 218 — Automotive Specialty II
(3)
Prerequisites: AUTO 111 or 116
Skills Advisories: Eligibility for ENG 98
Hours: 162 lab
Designed to further increase the skill and knowledge of the student in the ASE (Automotive Service Excellence) specialty area(s) of choice, working to trade standards. The eight areas of ASE specialization are Engine Repair, Engine Performance, Heating and Air Conditioning, Electrical Systems, Automatic Transmissions, Manual Transmission and Axle, Brakes and Front End.

AUTO 221 — Principles of Hybrid and Electric Drives
(2) — CSU
Hours: 36 lecture
Study of hybrid, plug-in hybrid and electric vehicle powertrains. Topics include high-voltage battery packs, inverters and motor-generators. Includes hands-on exercises using a second-generation Toyota Prius in a lab setting. Suitable for anyone interested in advanced automotive technology.

AUTO 290 — Work Experience in Automotive Service and Technology
(2-4)
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 120-300 lab
Supervised automotive employment for students whose career objectives, automotive course studies and employment complement each other. The student must be employed in an occupation directly related to the Automotive major. Must also be enrolled in no less than seven (7) units, including Work Experience.
Biological Sciences

The Biological Sciences curriculum provides the foundation for our majors: Biological Sciences, Bio-Medical Sciences and Natural History. Our two-year Associate in Arts Degrees are designed to provide the knowledge and skills for success before and after transfer to a four-year institution. Students who complete specialized one-year programs of study in Bio-Medical Sciences, Marine Science and Natural History can earn Biological Sciences Departmental Awards.

Our Biological Sciences Associate in Arts Degree provides preparation for transfer in such areas as Biochemistry, Molecular Biology, Pharmacology, Cell Biology, Ecology, Marine Biology, Botany, Zoology, Medical Technology and Pre-Medicine.

The Bio-Medical Sciences Emphasis: Associate in Arts Degree in Liberal Arts provides a strong foundation for students interested in pursuing a career in the health sciences.

The Natural History Associate in Arts Degree provides preparation for transfer in such areas as Natural History, Freshwater and Marine Fisheries and Wildlife Management. The Natural History A.A. can be completed fully online.

We offer specialized and general courses for all students, and support courses for medical technology and health services; recreation and nature interpretation; environmental studies; marine diving technology; and sports medicine. Many courses of a more general nature allow students to fulfill General Education and graduation requirements in Natural Sciences, while developing a biological perspective.

Our courses utilize advanced technology to deliver information to students, while retaining the tradition of personalized instruction and small class sizes. Computers at every lab bench, a 30-station computer classroom and a seamless network with wireless access facilitates student learning through the use of computer tools and information from any Biological Sciences classroom, laboratory and tutor room.

Online instruction carries this concept off campus to our students in Santa Barbara and worldwide, through more than 12 fully online classes, as well as many hybrid courses where the lecture is online and the lab is on campus. The excitement of beginning a path to a meaningful profession in biology is enhanced by a completely integrated system for acquiring information from instructors who love biology and teaching.

Advances in biological knowledge are providing solutions to the most challenging problems in medicine, environmental resources, agriculture and human ecology. Employment opportunities continue to increase as knowledge grows in genetic engineering, embryonic development, learning and memory, aging, environmental studies, natural resource management and the regulation of populations.

Department Student Learning Outcomes

1. Articulate the principles of evolutionary theory, the history of its development, and the role that evolution plays in the continuity and diversity of life.
2. Communicate the unifying principles governing the organization of organisms, from molecules to populations.
3. Explain and apply fundamental ecological principles, from populations to communities through ecosystems, and the geographical distribution of life on Earth.
4. Summarize and illustrate an understanding of the development of the organism, from fertilization to the adult form.
5. Compare and contrast organismal diversity and life histories, including nomenclature, taxonomy and systematics.
6. Characterize fundamental metabolic pathways, describe bioenergetics, and relate the interdependence of these pathways.
7. Demonstrate understanding of the structure and function of tissues, organs and organ systems, describing interrelationships and mechanisms of their integration to support the whole, functioning organism and the underlying causes of dysfunction.
8. Describe and connect the role of DNA in regulating cell activity to its importance as the basis of inheritance, evolution and biotechnology.
9. Demonstrate proficiency in the basic methods, instrumentation and quantitative analytical skills used to conduct biological research, including fundamental methods of microscopy, animal and plant dissection, and molecular and cellular biology.
10. Produce original research reports and review papers in a standard scientific format based on laboratory, field experiments and literature searches that include critical quantitative and qualitative evaluation of data to effectively communicate results, interpretations and concepts.
Department Offices
Adam Green, *Chair* (EBS-323, ext. 4194)
Susan Williams, *Division Aide* (EBS-213, ext. 2393)
Blakely Barron and Eric Wise, *Faculty Advisers, Biological Sciences*
Larry Jon Friesen, *Faculty Adviser, Natural History*
Heather J. Rose, *Faculty Adviser, Bio-Medical Sciences*
Adam Green, *Faculty Adviser, Environmental Studies*
Chelsea O’Connell, *Teachers’ Aide* (EBS-212, ext. 2311)
Cecilia Contreras, *Senior Lab Tech.* (EBS-218, ext. 2838)
Brett Leigh Dicks, *Senior Lab Tech.* (EBS-333, ext. 2319)
Samuel Hammond, *Senior Lab Tech.* (EBS-218, ext. 2327)
Larry Antoniazzi, *Academic Technology Support – Biology* (EBS-216, ext. 3499)
Marilynn Spaventa, *Dean*

Faculty and Offices
Peter Aguilar (EBS-308, ext. 2515)
Blakely R. Barron (EBS-322, ext. 2444)
Robert H. Fischer (EBS-314, ext. 8780)
Larry Jon Friesen (EBS-324, ext. 2318)
Adam Green (EBS-323, ext. 2394)
Matthew C. Kay (EBS-307, ext. 5172)
Jennifer L. Maupin (EBS-321 ext. 2396)
Michelle Paddack (EBS-319 ext. 2328)
Heather J. Rose (EBS-320, ext. 2329)
Patty Saito (EBS-308, ext. 4316)
Barry Tanowitz (EBS-306, ext. 2778)
Eric Wise (EBS-305, ext. 2517)

Degrees Awarded
Associate in Arts: Biological Sciences
Associate in Arts: Liberal Arts: Emphasis in Bio-Medical Sciences
Associate in Arts: Natural History

Departmental Awards
Bio-Medical Sciences: Departmental Award
Marine Science: Departmental Award
Natural History: Departmental Award

Honors Certificate of Achievement: Sciences
See “Honors Program” in the Catalog Index.

Planning a Program of Study for Transfer
Special problems confront the student planning to transfer to a four-year college or university. Both General Education and major requirements differ from one institution to another and within a single institution by major emphasis. These differences, plus personal, educational and professional goals, employment and prior preparation, will influence the courses you take. You should work closely with one of the Biological Sciences Faculty Advisers, Eric Wise (EBS-305, ext. 2517) and Blakely Barron (EBS-322, ext. 2444), to plan your program of study at SBCC.

**General Education.** It is very important for biology majors to complete the preparation in the major even if it means delaying some General Education/IGETC requirements. The science curriculum is sequential, controlled by prerequisites; you do not want to be in the position of taking freshman science classes as a junior.

**Preparation in the Major.** Since biology courses are built upon a base of mathematics and the physical sciences, it is important for biology students to begin these courses early so that they may be completed before transfer. The areas of highest concern are Mathematics, Chemistry, Physics and preparation in Biology. Students who must make up deficiencies should do so as early as possible.

**Mathematics.** Statistics is more widely applicable in biology than is calculus, yet most institutions require calculus because of its utility in rate-oriented biology. You should attempt to complete Elementary Statistics (MATH 117) and a calculus sequence (MATH 130-131 or 150-160) prior to transfer. If you are not eligible for these courses based on your placement exam scores, immediately enter the mathematics sequence at the recommended course level.

**Chemistry.** It is difficult to understand modern biology without at least an introduction to organic chemistry. Students without prior chemistry background and/or mathematics deficiencies may need to take CHEM 101 and appropriate mathematics courses before beginning the General and Organic Chemistry sequence (CHEM 155, 156, 211-221, 212-222). Note: however, that some universities require upper division organic chemistry. If so, complete organic chemistry after transfer.

**Physics.** There are three physics sequences for biology majors. General Physics (PHYS 105-106) requires algebra and trigonometry. PHYS 110-111 and PHYS 121-122-123 require calculus. Again, colleges
and universities differ as to their physics requirements. Many require calculus-based physics. 

**Biology.** SBCC has one of the strongest programs for preparation in three biology majors: Biological Sciences, Bio-Medical Sciences and Natural History. In addition to the biology major core sequence, BIOL 101-Plant, 102-Animal, 103-Cell, 104-Molecular and 105-Molecular Laboratory, biology students may choose from a wide range of courses to add depth and diversity to match their goals and interests. Four-year colleges and universities have different core sequences; to assure compatibility of your course selection and transfer institutions, contact the Counseling Center (Student Services, Room 120).

Declaring a Biology Major

If you have decided to major in biology, or you are not sure but are strongly considering it, declare a biology major. Declaring your major protects you from changes of departmental requirements. You will be able to follow either the rules in effect at the time you declared your major, or the rules as later changed. Further, by declaring a biology major you meet one of the requirements for scholarships offered by the Biological Sciences Department.

You may declare a biology major at the time you register at SBCC. Any time thereafter, you may declare a biology major or change your major by filing a “Change of Major” form at the Office of Admissions & Records or online through Pipeline.

Associate in Arts Degree

In order to achieve an Associate in Arts Degree, a student must complete a minimum of sixty (60) units of work, which must fulfill General Education, SBCC and department requirements. For complete information on General Education and SBCC requirements, see “General Education” and “Graduation and Transfer Requirements” in the Catalog Index.

**Associate in Arts Degree: Biological Sciences**

The Biological Sciences major is designed to provide a strong foundation for students interested in life’s structures and functions from perspectives of molecules and cells, organisms and populations, and ecology and evolution.

**Department Requirements (28.5 units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 101 — Plant Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 102 — Animal Biology</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 103 — Cell Biology</td>
<td>5.5</td>
</tr>
<tr>
<td>BIOL 104 — Molecular Biology*</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 155 — General Chemistry I</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 156 — General Chemistry II</td>
<td>5</td>
</tr>
<tr>
<td>*BIOL 105, Molecular Biology Laboratory, strongly recommended.</td>
<td></td>
</tr>
<tr>
<td>*BIOL 104 satisfies SBCC GE area A if taken with BIOL 105.</td>
<td></td>
</tr>
</tbody>
</table>

**Recommended for Transfer**

These additional courses should be considered when planning a program of study for transfer as a biology major.

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 105 — Molecular Biology Laboratory</td>
<td></td>
</tr>
<tr>
<td>CHEM 211-221 — Organic Chemistry I and Lab</td>
<td></td>
</tr>
<tr>
<td>CHEM 212-222 — Organic Chemistry II and Lab</td>
<td></td>
</tr>
<tr>
<td>MATH 117 — Elementary Statistics or MATH 117H — Elementary Statistics, Honors</td>
<td></td>
</tr>
<tr>
<td>MATH 130-131 — Calculus for Biological Sciences, Social Sciences &amp; Business I and II or MATH 150-160 — Calculus with Analytic Geometry I and II</td>
<td></td>
</tr>
<tr>
<td>PHYS 105-106 — General Physics or PHYS 110-111 — Introductory Physics or PHYS 121-122-123 — Calculus-Based Physics</td>
<td></td>
</tr>
</tbody>
</table>

**Biological Sciences Sample Program**

The following sample program will satisfy department and college requirements for graduation with an AA Degree and includes additional recommended courses to meet department requirements of most four-year colleges and universities.

**First Year**

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology 101</td>
<td>Biology 102</td>
</tr>
<tr>
<td>Chemistry 155</td>
<td>Chemistry 156</td>
</tr>
<tr>
<td>Mathematics 130 or 150*</td>
<td>Mathematics 131 or 160*</td>
</tr>
<tr>
<td>English 110 or 110H</td>
<td>English 111 or 111H</td>
</tr>
<tr>
<td>Physical Education</td>
<td></td>
</tr>
</tbody>
</table>

**Second Year**

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology 103</td>
<td>Biology 104</td>
</tr>
<tr>
<td>Chemistry 211-221*</td>
<td>Biology 105*</td>
</tr>
<tr>
<td>Physics 110*</td>
<td>Chemistry 212-222*</td>
</tr>
<tr>
<td>Geography 102</td>
<td>Physics 111*</td>
</tr>
<tr>
<td>Physical Education</td>
<td>Poli. Science 101</td>
</tr>
</tbody>
</table>

*Recommended for students planning to transfer.
**Associate in Arts Degree: Natural History**

The Natural History major is designed to provide a broad survey of the diversity of Earth’s life forms and their evolutionary and environmental relationships. By carefully choosing electives, a student may emphasize specialized areas for transfer, including aquatic biology, zoology, botany and environmental biology.

**Department Requirements (29-30 units)**

- BIOL 110 — Natural Science *or*
  - BIOL 110H — Natural Science, Honors *or*
  - BIOL 120 — Natural History *or*
  - BIOL 140 — Principles of Biology 3 - 4
- BIOL 112 — Evolution and Adaptation *or*
  - BIOL 150 — Biodiversity 3
- BIOL 122 — Ecology 3
- BIOL 123 — Ecology Laboratory 1
- BIOL 144 — Biogeography *or*
  - ERTH 141/GEOG 101 — Physical Geography 3
- BOT 121 — Plant Diversity 4
- ZOOL 122 — Animal Diversity *or* 3
- Natural History electives* 9

Biology 101 — Plant Biology (4) may substitute for Botany 121

Biology 102 — Animal Biology (5) may substitute for Zoology 122 + 123

Zoology 123 — Animal Diversity Lab recommended

*In addition, 9 units of elective credit, selected in consultation with the Natural History Faculty Adviser, are required to complete the major field requirements.

**Selection of Natural History Electives**

Students may choose Natural History elective courses from the areas of Anthropology, Art, Biology, Bio-Medical Sciences, Botany, Chemistry, Earth and Planetary Sciences (Geology), Environmental Studies, Mathematics, Physics and Zoology. Students intending to transfer with an AA Degree in Natural History should include introductory courses in general and organic chemistry, physics and statistics. Natural History electives must be selected in consultation with the Natural History Faculty Adviser and should be made carefully to avoid problems with departmental approval and transfer.

**Natural History Sample Transfer Program**

The following sample program illustrates a course sequence that emphasizes general Natural History. This program will satisfy department and college requirements for graduation with an AA Degree and includes elective courses to meet departmental requirements of many four-year colleges and universities.

**First Year**

*Fall Semester*  
- Biology 122 1 + 123 2  
- Biology 144 1
- Chemistry 155 2
- English 110 1

*Spring Semester*  
- Biology 120 1
- Zoology 122 1 + 123 2
- Chemistry 156 2
- English 111 1

**Second Year**

*Fall Semester*  
- Biology 112 1  
- Biology 142 1,2
- Biology 140 1 + 141 2
- Botany 121 1
- Mathematics 117 1
- Political Science 101 1
- Communication 121 1

*Spring Semester*  
- Biology 120 1
- Zoology 137 1,2
- Botany 121 1
- Art 215 1
- Communication 121 1

1 Available online

2 Natural History Electives must be selected in consultation with the Natural History Faculty Adviser.

**Associate in Arts Degree in Liberal Arts:**

**Emphasis in Bio-Medical Sciences**

**Department Requirements (29-30 units)**

- BMS 107 — Human Anatomy 4
- BMS 108 — Human Physiology 4
- BMS 127 — Medical Microbiology *or* 4
- BMS 157 — General Microbiology 4
- CHEM 101 — Introductory Chemistry *or* 4
- CHEM 104 — Fundamentals of General, Organic and Biological Chemistry *or* 4
- CHEM 155 — General Chemistry I 5

Plus 13 units of Bio-Medical Sciences electives selected from the following: Bio-Medical Sciences electives should be carefully selected in consultation with the Bio-Medical Sciences Faculty Adviser or the Sciences Counselor to avoid problems with transfer. Students intending to transfer with an AA Degree in Liberal Arts: Emphasis in Bio-Medical Sciences should include introductory courses in general and organic chemistry, physics and statistics.
AH 120; ANTH 101, 103#, 104#; ART 122, 123, 135;
CHEM 156, 211, 212, 221, 222; CIM 100, 125, 225, 250;
COMM 101♦, 121%, 121H%, 122%, 131%, 131H%, 141%, 151#;
EMT 110;
HE 101~, 102~, 103, 104, 108;
HIT 101, 135, 201, 204, 220, 265;
MATH 107^, 111^, 117^, 117H^, 120^, 130^, 131^, 137^, 138^, 150^, 160^;
ZOOL 110, 122*, 123*, 140.

♦ Satisfies SBCC GE Area B
+ Satisfies SBCC GE Area A
* Satisfies SBCC GE Area A only if lecture and lab are combined
~ Satisfies SBCC GE Area E3 when combined with 1 unit of PE activity
% Satisfies SBCC GE Areas D2 and E4
# Satisfies SBCC GE Areas B and E5
^ Satisfies SBCC GE Areas D2 and E1

Departmental Awards

Students who have successfully completed a defined program of study in the areas of bio-medical sciences, marine science and natural history earn Biological Sciences Departmental Awards. Each program of study can be completed in one year. There are neither college requirements nor General Education requirements that need be taken.

Complete descriptions of Departmental Awards requirements are available from the Biological Sciences Department office.

Bio-Medical Sciences

Department Requirements: 30 units

The Bio-Medical Sciences Department Award recognizes achievement by students interested in careers in the allied health fields, physical/health education, recreation and sports technology. Core courses consist of BMS 107 (Human Anatomy), BMS 108 (Human Physiology) and BMS 127 (Medical Microbiology). In addition to the core curriculum, students must select 18 units of electives from an approved listing of courses in biology, anthropology, art, chemistry, physical/health education, recreation and human biology.

A student must complete each of the courses in the Approved Program of Study with a grade of “C” or better.

Natural History

Department Requirements (29-30 units)

BIOL 110 — Natural Science or
BIOL 110H — Natural Science, Honors or
BIOL 120 — Natural History or
BIOL 140 — Principles of Biology ......................... 3 - 4

BIOL 112 — Evolution and Adaptation or
BIOL 150 — Biodiversity ....................................3

BIOL 122 — Ecology .............................................3

BIOL 123 — Ecology Laboratory ............................1

BIOL 144 — Biogeography or
ERTH 141/GEOG 101 — Physical Geography ........3

BOT 121 — Plant Diversity ..................................4

ZOOL 122 — Animal Diversity 2, 3 ........................3

Natural History Electives* ..................................9

1 Biology 101 — Plant Biology (4) may substitute for Botany 121
2 Biology 102 — Animal Biology (5) may substitute for Zoology 122 + 123
3 Zoology 123 — Animal Diversity Lab recommended

*In addition, 9 units of elective credit, selected in consultation with the Natural History Faculty Adviser, are required to complete the major field requirements.

A student must complete each of the courses required with a grade of “C” or better.

Marine Science

The Marine Science Departmental Award comprises 21 units and signifies that students have a broad background in the physical and biological processes of the world’s oceans and the tools and techniques with which they are studied. The curriculum includes courses from Biology, Marine Technology and Earth and Planetary Sciences, and is especially suited to students interested in the fields of mariculture, boating and recreation, skin and Scuba diving, fishing, scientific research and marine science.

Students interested in a Marine Biology major should take the Biological Sciences majors sequence. You are encouraged to supplement this sequence with courses in Marine Science.
Marine Science Required Courses (19.8 units)

Students planning on completing the Marine Science curriculum in two semesters can begin in either Fall or Spring.

**Fall Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 124*</td>
<td>Biological Oceanography</td>
<td>4</td>
</tr>
<tr>
<td>ERTH 152</td>
<td>Weather and Climate or GEOG 152</td>
<td>3</td>
</tr>
<tr>
<td>MDT 108</td>
<td>Rigging</td>
<td>1</td>
</tr>
<tr>
<td>MDT 109</td>
<td>Seamanship and Small Boat Handling</td>
<td>1.5</td>
</tr>
<tr>
<td>HE 103*</td>
<td>Responding to Medical Emergencies</td>
<td>2</td>
</tr>
</tbody>
</table>

**Spring Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 125*</td>
<td>Marine Biology</td>
<td>4</td>
</tr>
<tr>
<td>MDT 101</td>
<td>Information and Introduction to Marine Diving Technology</td>
<td>0.3</td>
</tr>
<tr>
<td>ERTH 151/151L</td>
<td>Introductory Physical Oceanography and Lab</td>
<td>4</td>
</tr>
</tbody>
</table>

*Substitutions:* The combination of BIOL 101 (Plant Biology) and BIOL 102 (Animal Biology) can be substituted for BIOL 125. The completion of EMT 110 can be substituted for HE 103. The completion of BIOL 142 can be substituted for BIOL 124.

A student must complete each of the required courses (or use substitution options) with a grade of “C” or better.

**Advising**

Students pursuing Departmental Awards are encouraged to identify themselves to the appropriate adviser to formulate a program of study.

*Bio-Medical Sciences:* Heather J. Rose  
*Environmental Studies:* Adam Green  
*Marine Science:* Michelle Paddack  
*Natural History:* Larry Jon Friesen

**Honors and Awards**

*Outstanding Student Awards*

Each year one student may be selected “Outstanding Student” in Biological Sciences, Bio-Medical Sciences, Botany, Cell, Molecular, Natural History, Marine Science, Zoology and some other courses. Selections are made by the Biological Sciences Department faculty.

Selections are based solely on academic excellence and applications by students are not required.

*Robert J. Profant Memorial Scholarship*

Established in 1991 in honor of the late Professor Profant’s long and dedicated career, and awarded once each year, the Robert J. Profant Scholarship recognizes an outstanding student majoring in biology. Students are recommended to the department by faculty or may apply through the Financial Aid Office.

To qualify for a scholarship award, a student must be a declared biology major (Biological Sciences or Natural History), enrolled in a course offered by the Biological Sciences Department during the academic year of application, and have a 3.5 GPA in courses from the sciences and mathematics.

*William Olivarius Scholarships*

In 1982, a generous endowment from the late William Olivarius enabled the Biological Sciences Department to offer scholarships to students majoring in biology. Several scholarships are awarded each year on the basis of academic excellence.

To qualify for a scholarship award, a student must be a declared biology major (Biological Sciences, Biotechnology or Natural History), be enrolled in a minimum of 12 units each semester of the award year, and have a minimum overall grade point average of 3.0. All students with exceptional overall GPAs are encouraged to apply. Applications and faculty nominations are due at the end of the first week of February.

*Richard Armstrong Memorial Scholarship*

Richard Armstrong is warmly remembered as a dedicated scientist and SBCC professor who taught in the Biological Sciences Department for three decades. He passed away in the Spring 2005 semester and is honored by his family, friends and colleagues with this scholarship.

Eligible students must demonstrate academic excellence and a passion for biology. They must have declared a major in one of the Biological Sciences and have completed at least 12 units of the biology majors sequence of courses, preferably (but not limited to) the following courses: Biology 101, 102, 103, and 104 and Chemistry 155, 156. They may be either continuing their studies at SBCC (with a clear intent of pursuing an advanced degree) or transferring to a 4-year institution as a biology major.
Microbiology Achievement Award
The Microbiology Achievement Award is an endowed gift administered jointly by the Biological Sciences Department and the Santa Barbara City College Foundation. The award is meant as a special recognition to the student who demonstrated superior academic achievement in the field of microbiology, as well as in true academic tradition, exhibited outstanding class leadership and provided strong support to classmates.

Dr. Judith Evans Meyer Memorial Scholarship for the Bio-Medical Sciences
Award is based equally on financial need and academic achievement. Applicants must have earned a passing grade in at least one (1) SBCC Bio-Medical Science course and either be currently enrolled or have successfully completed one (1) other Bio-Medical Science course within the past two (2) college terms (including summer sessions). Applicants may be entering, continuing, re-entering or transferring to a four-year institution. During the award period they must be enrolled in a minimum of six (6) units maintain a minimum 3.0 GPA.

David W. Doner, Jr., M.D. Scholarship
This award is made possible by the generous gift of David W. Doner, Jr., M.D. Dr. Doner practiced medicine for forty years and taught medical residents and students at Boston University, Tufts University and Santa Barbara Cottage Hospital as an active faculty mentor. He endowed a scholarship fund for the Biological Sciences Department and the School of Nursing at Santa Barbara City College, specifically for pre-medical science and allied health majors.

Special Programs and Courses

291 — Seminars in the Biological Sciences
The 291 series in Biological Sciences is designed to provide students the opportunity to investigate areas outside the regular course offerings. The topics are selected on the basis of faculty and student interest. Students are urged to suggest topics to the department.

295/298/299 — Internship and Independent Studies
This series offers opportunities to students with particular skills or interests to receive credit for internship (295), independent reading (298) or research (299). You may enroll in Internship and Independent Studies at any time during the semester. You must secure a faculty sponsor and file an Independent Studies proposal with the Biological Sciences Office and the Office of Admissions & Records.

Student Employment Opportunities
Each semester the Biological Sciences Department hires students as laboratory and museum assistants, collectors, tutors and readers. Students may apply for one of these positions at the Biological Sciences Offices (EBS-212). The greatest number of positions is available at the beginning of the school year. Students are encouraged to file an application during the prior spring semester or during the summer to have the best chance for employment beginning in the fall.

Student laboratory and museum assistants gain experience in laboratory and museum techniques under the supervision of Biological Sciences faculty and laboratory technicians. Museum assistants and collectors collect, accession and preserve botanical and animal specimens for use in classes and work on a variety of departmental projects.

Students who have performed well in a course and who demonstrate interest and ability in teaching are selected by the faculty as readers or to tutor students currently enrolled in the course. The purpose of this program is twofold: current students in the course receive excellent peer tutoring; and tutors learn the techniques of teaching. Tutors also find that to teach is to learn.

Anthropology Course

ANTH 101 — Physical Anthropology
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Biological aspects of human characteristics and behavior; the relationship of humans to other animals; the origins and evolutionary adaptations of human populations and the biological basis for the diversity of human groups.

Biology Courses

BIOL 100 — Concepts of Biology
(4) — CSU, UC*
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 108 (54 lecture, 54 lab)
Basic concepts of biology. Designed for non-biological sciences majors with no prior general biology course. Satisfies SBCC General Education requirement in Natural Sciences. (*UC Transfer Limit: no credit for BIOL 100 if taken after BIOL 101, 102 or 103)
BIOL 101 — Plant Biology  
(4) — CSU, UC  
Prerequisites: MATH 107 or 111  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 108 (54 lecture, 54 lab)  
Principles of biology, with emphasis on major plant groups. Anatomy, physiology, evolution, and diversity of the Archaea, Bacteria, Protista, Fungi and Plantae. Required for the Biological Sciences major. Satisfies SBCC General Education requirement in Natural Sciences. Satisfies SBCC General Education requirement in Natural Sciences.

BIOL 102 — Animal Biology  
(5) — CSU, UC  
Prerequisites: MATH 107 or 111  
Skills Advisories: Eligibility for ENG 110 or 110H  
Course Advisories: BIOL 101  
Hours: 162 (54 lecture, 108 lab)  
Principles of animal taxonomy, evolution, population and community ecology; protist and animal diversity and adaptations; emphasis on vertebrate anatomy and physiology. Required for the Biological Sciences major. Satisfies SBCC General Education requirement in Natural Sciences.

BIOL 103 — Cell Biology  
(5.5) — CSU, UC*  
Prerequisites: MATH 107 or 111 and CHEM 104 or 155 and ENG 110 or 110H  
Hours: 153 (54 lecture, 18 discussion, 81 lab)  
Cell structure and function: molecular architecture, reproduction and growth; mechanisms of genetics; intercellular communication; cell and organ system physiology; life's origin. Study scientific literature with instruction in critical thinking, composition and logical analyses of ideas and experiments. Required for the Biological Sciences and Biotechnology majors. Satisfies SBCC General Education requirement in Communication and Analytical Thinking. (*UC Transfer Limit: BIOL 103 maximum credit, 5 units)

BIOL 104 — Molecular Biology  
(4) — CSU, UC*  
Prerequisites: MATH 107 or 111  
Skills Advisories: Eligibility for ENG 110 or 110H  
Course Advisories: CHEM 155 and 156  
Hours: 54 lecture, 18 discussion  
Molecular cell biology and genetics of prokaryotes and eukaryotes; emphasis on transmission and molecular biology of genes. Required for the Biological Sciences majors. (*UC Transfer Limit: BIOL 104 and 105 combined: maximum credit, 5 units)

BIOL 105 — Molecular Biology Laboratory  
(2) — CSU, UC*  
Prerequisites: MATH 107 or 111  
Corequisites: BIOL 104  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 72 (18 discussion, 54 lab)  
Laboratory in molecular cell biology and genetics of prokaryotes and eukaryotes, with emphasis on transmission and molecular biology of genes. Strongly recommended for the Biological Sciences major; required for Biotechnology majors. (*UC Transfer Limit: BIOL 104 and 105 combined: maximum credit, 5 units)

BIOL 110 — Natural Science  
(3) — CSU, UC*  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture  
Physical and chemical principles underlying biological architecture and function. In combination with BIOL 141, BIOL 110 satisfies General Education requirement in Natural Sciences. (*UC Transfer Limit: BIOL 110 and 110H combined: maximum credit, one course)

BIOL 110H — Natural Science, Honors  
(4) — CSU, UC*  
Skills Advisories: Eligibility for ENG 110 or 110H  
Limitation on Enrollment: Honors Program Acceptance  
See “Honors Program” section of this Catalog.  
Hours: 72 lecture  
Introduction to the physical and chemical principles important to an understanding of biological architecture and function. Laboratory and field investigations of forces, light and biomaterial; optimal form; bioenergetics; functional design. Satisfies SBCC General Education requirement in Natural Sciences. (*UC Transfer Limit: BIOL 110 and 110H combined: maximum credit, one course)

BIOL 112 — Evolution and Adaptation  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture  
Principles of biological evolution, diversity of life on Earth, and a survey of living and extinct organisms. Investigates theories of life’s origin, modes of speciation and adaptations of dominant life forms through the
ages. In combination with BIOL 141, BIOL 112 satisfies General Education requirement in Natural Sciences.

**BIOL 116 — Biological Illustration**
(4) — CSU
*Skills Advisories: Eligibility for ENG 110 or 110H*
*Course Advisories: ART 120*
*Hours: 108 (54 lecture, 54 lab)*
Traditional and contemporary techniques of scientific illustration of biological subjects for technical and medical print and electronic publications. May be taken four times for credit.

**BIOL 118 — Nature Photography**
(3) — CSU
*Skills Advisories: Eligibility for ENG 110 or 110H*
*Hours: 90 (36 lecture, 54 lab)*
Field and laboratory photography of biological subjects. Camera, light and film, and the special methods of wildlife photography, photomacrography, photomicrography and converting images to digital formats. May be taken four times for credit.

**BIOL 120 — Natural History**
(4) — CSU, UC
*Skills Advisories: Eligibility for ENG 110 or 110H and proficiency in MATH 104 or 107 or 111*
*Hours: 108 (54 lecture, 54 lab)*
Survey of the natural environment through studies of Earth’s ecosystems: emphasis on the plant and animal inhabitants and the influences of cosmic, geological and meteorological phenomena. Satisfies SBCC General Education requirement in Natural Sciences.

**BIOL 122 — Ecology**
(3) — CSU, UC
*Skills Advisories: Eligibility for ENG 110 or 110H*
*Hours: 54 lecture*
Organisms and populations as integrated elements of communities and ecosystems. Population structure, growth and evolution; relationships between species: competition, predation, coevolution; community structure and development; biodiversity; biogeography. Satisfies SBCC General Education requirement in Natural Sciences when combined with BIOL 123.

**BIOL 123 — Ecology Laboratory**
(1) — CSU, UC
*Corequisites: BIOL 122*
*Skills Advisories: Eligibility for ENG 110 or 110H*
*Hours: 54 lab*
Laboratory and field investigations of ecological principles. Satisfies SBCC General Education requirement in Natural Sciences when combined with BIOL 122.

**BIOL 124 — Biological Oceanography**
(4) — CSU, UC
*Skills Advisories: Eligibility for ENG 110 or 110H*
*Hours: 108 (54 lecture, 54 lab)*
Relationships between marine plants and animals and physical characteristics of Earth’s oceans. Emphasis on forms of marine organisms found in the open sea, their characteristics and ecological relationships. Biological sampling techniques and physical measurements studied in laboratory and at sea. Satisfies SBCC General Education requirement in Natural Sciences.

**BIOL 125 — Marine Biology**
(4) — CSU, UC*
*Skills Advisories: Eligibility for ENG 110 or 110H*
*Hours: 108 (54 lecture, 54 lab)*
Marine plants and animals, with emphasis on local organisms and their ecological adaptations. Laboratory covers particular habitats in the littoral zone during low tides. Satisfies SBCC General Education requirement in Natural Sciences. (*UC Transfer Limit: BIOL 125 and 126 combined: maximum credit, one course*)

**BIOL 126 — Aquatic Ecosystems**
(3) — CSU, UC*
*Skills Advisories: Eligibility for ENG 110 or 110H*
*Hours: 54 lecture*
Diversity of plants and animals associated with marshes, ponds, lakes and streams; ecological relationships and adaptations to life in water. Field studies emphasized. Satisfies SBCC General Education requirement in Natural Sciences. (*UC Transfer Limit: BIOL 125 and 126 combined: maximum credit, one course*)

**BIOL 130 — Methods in Field Biology**
(3) — CSU
*Skills Advisories: Eligibility for ENG 110 or 110H*
*Hours: 90 (36 lecture, 54 lab)*
Through weekly field trips and 2-3 weekend field experiences, students will study flora and fauna of California using current biological and ecological field research methods, collect and analyze data, demonstrate leadership and group work skills, and write and present a research proposal. Students must be able to hike in rough terrain and carry bulky equipment.

**BIOL 133 — Ecology of Morro Bay Area**  
(1) — CSU  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 32 (8 lecture, 24 lab)  
Field course of study introducing the ecology of the relatively undisturbed wetland habitats of the Morro Bay region of the central California coast (mudflats, salt marsh, rocky outer coast).

**BIOL 140 — Principles of Biology**  
(3) — CSU, UC*  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture  
Basic principles of cells, genetics, evolution, biodiversity and ecology. Designed for Natural History majors. Satisfies Natural Science General Education requirement when combined with BIOL 141.  
(*UC Transfer Limit: no credit for BIOL 140 if taken after 100, 101, 102 or 103)

**BIOL 141 — Biology Laboratory**  
(2) — CSU, UC*  
Prerequisites: BIOL 110 with a minimum grade of “C”  
Corequisites: BIOL 112 with a minimum grade of “C” or BIOL 140 with a minimum grade of “C”  
Skills Advisories: Eligibility for ENG 110 or 110H, proficiency in MATH 104 or 107 or 111  
Hours: 72 (18 lecture, 54 lab)  
Laboratory investigation of biological principles and techniques of investigation. Satisfies SBCC General Education requirement in Natural Sciences when combined with BIOL 110 or 112 or 140.  
(*UC Transfer Limit: no credit for BIOL 141 unless taken after or concurrently with BIOL 112 or 140)

**BIOL 142 — Marine Science**  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture  
Introduction to oceanography and marine biology: ocean properties, marine ecology of the tropics, poles, temperate and deep-sea regions, and marine environmental concerns.

**BIOL 144 — Biogeography**  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture  
Survey of the history, distribution and diversity of life and the methods by which biodiversity is defined and measured.

**BIOL 150 — Biodiversity**  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 110 or 110H  
Course Advisories: High school biology  
Hours: 54 lecture  
Diversity, adaptations and evolutionary history of life on Earth; principles of ecology and evolution. Examination of theories of systematics and nomenclature.

**BIOL 161 — DNA and Society**  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture  
Introduction to DNA structures and functions, heredity, genetics, biotechnology, cloning, genetically modified organisms and stem cells from a biological perspective; relevant ethical issues and implications for society and the individual are explored. Satisfies SBCC General Education requirement in Natural Sciences.

**BIOL 172 — Symbiosis**  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture  
Origins and nature of biological partnerships. Symbiotic relations from microbial landscapes to global ecology. Emphasis on ecological, behavioral and chemical exchanges between organisms and ecosystems.

**BIOL 291 — Seminars in Biology**  
(2) — CSU  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 36 lecture  
Topic or group of interrelated topics presented in seminar format by students enrolled in the course. Course content varies. Information on course content may be obtained from the Biological Sciences Department Office or SBCC Schedule of Classes. May be taken four times for credit.  
(*UC Transfer Limit:
**Biological Sciences 161**

**Biological Sciences Courses**

**BMS 100 — The Human Body**
(4) — CSU, UC*
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: One semester high school biology
Hours: 108 (54 lecture, 54 lab)
Structure and function of the human body. Non-technical introduction to anatomy, physiology, exercise, fitness and nutrition. Laboratory experiments in human physiology; study of human anatomical materials. Satisfies SBCC General Education requirement in Natural Sciences. Satisfies Anatomy and Physiology requirements for SBCC LVN Program. Does not satisfy requirements for ADN majors. (*UC Transfer Limit: no credit for BMS 100 if taken after BMS 107 or 108; BMS 100, 107, 108, and 146 combined: maximum credit, two courses)

**BMS 107 — Human Anatomy**
(4) — CSU, UC*
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 108 (54 lecture, 54 lab)
Structure of the human body. Laboratory includes study of a human anatomical specimen and comparative anatomy. Transferable to all four-year institutions, including nursing schools. Satisfies SBCC General Education requirement in Natural Sciences. (*UC Transfer Limit: BMS 100, 107, 108, and 146 combined: maximum credit, two courses)

**BMS 108 — Human Physiology**
(4) — CSU, UC*
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: BMS 107, CHEM 101 or 104
Hours: 108 (54 lecture, 54 lab)
Functions of the human body. Laboratory emphasizes recording physiological data from each student. Transferable to all four-year institutions, including nursing schools. Satisfies SBCC General Education requirement in Natural Sciences. (*UC Transfer Limit: BMS 100, 107, 108, and 146 combined: maximum credit, two courses)

**BMS 118 — Human Microanatomy**
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: BMS 100 or 107
Hours: 54 lecture
Functional histology of the human body. Cell structure and function; architecture, control and integration of cells in tissues of all major organs.

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**Independent Studies in Biology**

For prerequisites and eligibility information, see “Independent Study” in the Catalog Index. In order to enroll in a BIOL 295 or 299 course, a student must have completed 12 units at SBCC with a GPA of 2.5 and a minimum of 6 units with a GPA of 3.0 in the Biological Sciences Department.

**BIOL 291 — Internship in Biology**
(1-4) — CSU
Limitation on Enrollment: Student must have completed 12 units at SBCC with a GPA of 2.5 and a minimum of 6 units with a GPA of 3.0 in the Biological Sciences Department.
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 48-273 lab
Structured, on-the-job experience in a field directly related to the student’s area of interest in the biological sciences.

**BIOL 295 — Independent Reading in Biology**
(1-4) — CSU
Limitation on Enrollment: Student must have completed 12 units at SBCC with a GPA of 2.5 and a minimum of 6 units with a GPA of 3.0 in the Biological Sciences Department.
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 48-192 lab
Independent literature search and/or reading of material on a topic in biology. A final report, including an annotated bibliography, is required. May be taken four times for credit. (*UC Transfer Limit: BIOL 298 computed as Independent Studies; see counselor)

**BIOL 299 — Independent Research in Biology**
(1-4) — CSU
Limitation on Enrollment: Student must have completed 12 units at SBCC with a GPA of 2.5 and a minimum of 6 units with a GPA of 3.0 in the Biological Sciences Department.
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 48-192 lab
Independent, systematic research investigation of a problem in biology. A final report on research conducted is required. May be taken four times for credit. (*UC Transfer Limit: BIOL 299 computed as Independent Studies; see counselor)
BMS 119A — Human Dissection of the Head and Neck  
(1) — CSU  
Prerequisites: BMS 107, with a minimum grade of “B”  
Hours: 54 lab  
Directed dissection of the head and neck of the human cadaver. May be taken for one credit. This unit of credit requires 48 hours of laboratory work per semester.  
Graded Pass/No Pass

BMS 119B — Human Dissection of the Appendages  
(1) — CSU  
Prerequisites: BMS 107 with a minimum grade of “B”  
Hours: 54 lab  
Directed dissection of the appendages of the human cadaver. May be taken for one credit. This unit of credit requires 48 hours laboratory work per semester.  
Graded Pass/No Pass

BMS 119C — Human Dissection of the Torso  
(1) — CSU  
Prerequisites: BMS 107 with a minimum grade of “B”  
Hours: 54 lab  
Directed dissection of the external and internal structures of the torso of the human cadaver. May be taken for one credit. This unit of credit requires 48 hours of laboratory work per semester.

BMS 127 — Medical Microbiology  
(4) — CSU, UC  
Prerequisites: CHEM 101 with a minimum grade of “C” or one year of high school chemistry with a minimum grade of “C” or CHEM 104 with a minimum grade of “C” or CHEM 155 with a minimum grade of “C”  
Skills Advisories: Eligibility for ENG 110 or 110H  
Course Advisories: BMS 108 and BIOL 100  
Hours: 108 (54 lecture, 54 lab)  
Surveys of the microorganisms that contribute to human health and human disease. Biology of bacteria, viruses, fungi, prions and a variety of Eukaryotic organisms are investigated; emphases includes the structural and metabolic diversity of microorganisms, and the molecular and cellular basis of host-microbe interactions.

BMS 128 — Human Nutrition  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture  
Nutritional needs of the human body. Studies individual, local, national and world nutritional efforts.

BMS 128L — Human Nutrition Laboratory  
(1) — CSU, UC  
Corequisites: BMS 128  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lab  
Laboratory investigations of human nutrition; nutritional analysis of food; and guidelines for prevention of chronic diseases through diet.

BMS 136 — Biology of Human Sexuality  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture  
Fundamental principles and current research focused on the anatomy and physiology of reproductive systems, hormonal control of reproductive cycles, diversity of sexual responses, basic genetics and heredity, early human development, pregnancy, parturition, causes and treatments of infertility, sexually-transmitted infections, contraception, age-related changes in sexual function and behavior, sexual dysfunction and comparative sexual behaviors.

BMS 146 — Human Form and Function  
(3) — CSU, UC*  
Skills Advisories: Eligibility for ENG 110 or 110H  
Course Advisories: CHEM 101 or 156. Computer and internet competence.  
Hours: 54 lecture  
Descriptive introduction to the structure and function of the human body. (*UC Transfer Limit: BMS 100, 107, 108 and 146 combined: maximum credit, two courses)

BMS 157 — General Microbiology  
(4) — CSU, UC  
Prerequisites: CHEM 101 with a minimum grade of “C” or one year of high school chemistry with a minimum grade of “C” or CHEM 104 with a minimum grade of “C” or CHEM 155 with a minimum grade of “C”  
Skills Advisories: Eligibility for ENG 110 or 110H or 110GB  
Course Advisories: BIOL 100 with a minimum grade of “C”  
BMS 108 with a minimum grade of “C”  
Hours: 108 (54 lecture, 54 lab)  
Surveys the biology and ecology of various microbiological taxa: bacteria, archaea, viruses, fungi, protists and microscopic animals. Emphasis placed on their symbiotic roles in nature, as well as on their evolution, taxonomy, metabolism and genetics. Associated biotechnological techniques and industrial applications are explored.
Botany Courses

BOT 100 — Concepts of Botany  
(4) — CSU, UC*  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 108 (54 lecture, 54 lab)  
Plant structure and function; the role of plants in the biosphere and society. Laboratory includes field studies. Designed for non-Biological Sciences majors with no prior general botany course. Satisfies SBCC General Education requirement in Natural Sciences. (*UC Transfer Limit: No credit for BOT 100 if taken after BOT 121; BOT 100, 121, and 122 combined: maximum credit, two courses)

BOT 121— Plant Diversity  
(4) — CSU, UC*  
Skills Advisories: Eligibility for ENG 110 or 110H  
Course Advisories: BIOL 100  
Hours: 108 (54 lecture, 54 lab)  
Plant diversity, adaptations and evolutionary history; principles of ecology and evolution. Satisfies SBCC General Education requirement in Natural Sciences. (*UC Transfer Limit: BOT 100, 121, and 122 combined: maximum credit, two courses)

BOT 122 — Flowering Plant Identification  
(3) — CSU, UC*  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 90 (36 lecture, 54 lab)  
Botanical classification, methods of identification and recognition of important California plant species and families. (*UC Transfer Limit: BOT 100, 121 and 122 combined: maximum credit, two courses)

BOT 123 — Field Botany  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 80 (32 lecture, 48 lab)  
Flora, vegetation and major ecological features of natural ecosystems; field lectures, laboratories and camping. Five one-day field trips; a fee is charged. May be taken four times for credit.

BOT 129 — Survey of Earth’s Vegetation  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture  
Diversity and structure of Earth’s vegetation types and associated environmental factors responsible for these natural associations. Consideration is given to the preservation, destruction and reconstruction of native vegetation.

BOT 132 — Marine Botany  
(1) — CSU  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 24 (12 lecture, 12 lab)  
Six-week short course beginning mid-semester. Two hours lecture weekly. Twelve (12) hours field to be arranged. May be taken four times for credit.

Environmental Studies Courses

ENVS 110 — Humans and the Biological Environment  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture  
Growth and variations in populations of organisms and their interactions with the physical environment. Characteristics of living natural resources and changes caused by expanding human populations and technological developments. Satisfies SBCC General Education requirement in Natural Sciences when combined with ENVS 111. (Required for the Environmental Studies major.)

ENVS 111 — Environmental Field Studies  
(1) — CSU, UC  
Corequisites: ENVS 110  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lab  
Field studies designed to demonstrate general ecological/environmental principles through exposure to and analysis of many different communities and sites of environmental concern. Satisfies SBCC General Education requirement in Natural Sciences when combined with ENVS 110.

Zoology Courses

ZOOL 110 — Animal Physiology  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 110 or 110H and proficiency in MATH 104 or 107 or 111  
Hours: 54 lecture  
How animals work. Animal physiological systems, perception of and responses to external stimuli, integration of activities, maintenance of the internal environment, locomotion and reproduction.
ZOOL 122 — Animal Diversity  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture  

ZOOL 123 — Animal Diversity Laboratory  
(1) — CSU, UC  
Corequisites: ZOOL 122  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lab  
Laboratory and field investigations of animals. Animal diversity, anatomy and physiology, principles of ecology and evolution. Satisfies SBCC General Education requirement in Natural Sciences when combined with ZOOL 122.

ZOOL 124 — Insect Biology  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture  
Introduction to anatomy, physiology, ecology, behavior and diversity of insects and other terrestrial arthropods.

ZOOL 137 — Ornithology  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture  
Systematics, distribution, physiology, behavior and ecology of birds. Emphasis on diversity, functional morphology and evolutionary history.

ZOOL 138 — Biology of Birds  
(1.5) — CSU  
Skills Advisories: Eligibility for ENG 110 or 110H  
Eight-week short course  
Hours: 40 (18 lecture, 27 lab)  
Anatomy, physiology, evolution and behavior of birds. Field trips are timed to coincide with migratory periods, and emphasize identification and classification.

ZOOL 140 — Animal Behavior  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture  
Introduction to animal behavior; methods and results of studies of invertebrate and vertebrate behavior; foraging strategies, social competition, sexual selection, mating systems, cooperation and social organization.
Business Administration

(Business Law, Entrepreneurship, Management, Real Estate)

Degrees, Awards and Certificates

Associate in Arts: Business Administration – Emphasis in Entrepreneurship
Associate in Arts: Business Administration – Emphasis in Management
Associate in Arts: Business Administration
Associate in Science: Real Estate
Associate in Science (AS-T): Business Administration for Transfer
Certificate of Achievement: Business Administration – Emphasis in Entrepreneurship
Certificate of Achievement: Business Administration – Emphasis in Management
Certificate of Achievement: Real Estate
Skills Competency Award: Business Administration, Level I
Skills Competency Award: Business Administration, Level II
Skills Competency Award: Entrepreneurship
Skills Competency Award: Entrepreneurship: Web Design, Level I
Skills Competency Award: Entrepreneurship: Web Design, Level II

Program Description

This department offers occupational and professional programs in business which meets the needs of students planning to obtain immediate employment, retrain, earn an AA Degree, transfer to a four-year college or university, or take courses to enhance their understanding of the environment in which they work and live.

Business Administration courses (Business Administration, Business Law, Legal Environment of Business, Management, Leadership, Business Mathematics, Real Estate and Entrepreneurship) give students general business knowledge in managerial controls, economics of business, human resources (personnel), labor relations, business risks, interaction of government and business law, production and distribution. They provide the foundations for areas of specialization, such as accounting, finance, management, marketing and entrepreneurship.

Management courses prepare students to be small business managers or lead toward a career in management of a larger firm. These courses provide an existing manager with new insights and training, career advancement opportunities, offer new career possibilities to the younger student, or a chance to change careers for the older student.

The Real Estate Program is designed to prepare students for professional certification as real estate salespeople and real estate brokers. All courses are taught by practicing real estate professionals with strong academic backgrounds, extensive practical experience and local community service. These courses are valuable for real estate investors, developers, appraisers, escrow officers and property managers. Attractive opportunities for careers in these areas exist in Santa Barbara. All of the Real Estate courses are designed to satisfy California’s real estate licensing requirements.

The entrepreneurship courses are designed to enable new and existing entrepreneurs to successfully launch a new business or sustain and grow an existing business. Students learn how to identify, assess and develop a new venture, acquire the necessary resources to launch a new venture, and build a collaborative team capable of managing a new venture.

Program Student Learning Outcomes

Business Administration (AA and AS-T) Degree

1. Meet the requirements for successful transfer to a UC/CSU program in Business Economics and/or Business Administration.
2. Analyze the external environment of business as a means of assessing the threats and opportunities confronting businesses in the 21st century.
3. Define, analyze and devise solutions for complex business problems and issues by using logical reasoning patterns.
4. Demonstrate a comprehension of the legal and ethical issues confronting today’s contemporary organizations.
Business Administration—Emphasis in Management: Degree and Certificate
1. Explain general management functions, roles and responsibilities required to effectively manage today’s contemporary organizations.
2. Recognize the ethical issues facing managers and apply decision-making techniques and ethical reasoning to resolve 21st century ethical dilemmas.
3. Work effectively in teams and acknowledge the benefits of collaboration and mutual responsibility.
4. Access and interpret information, respond and adapt to a dynamic business environment, make complex decisions, solve problems, and evaluate outcomes.

Business Administration—Emphasis in Entrepreneurship: Degree and Certificate
1. Access and interpret information (legal, financial, operational, market) necessary to develop a new business venture.
2. Assess the risks associated with developing a new business venture.
3. Develop a market-ready business plan.

Real Estate Degree and Certificate
1. Analyze common real estate problems, apply appropriate solutions, and interpret outcomes.
2. Meet career preparation goals, as well as prepare for a state licensing exam.
3. Explain the process for making home purchase or sale decisions and completing real estate transactions.
4. Demonstrate mastery of program-specific concepts and skills. (e.g., understand theory and application in real estate finance, investments, property management and financial institutions).

Department Offices
Division: Business Education
Bonnie Chavez, Chair (BC-219, ext. 2508)
Melissa Moreno, Dean (Wake Campus Rm. 1, ext. 8284)

Faculty and Offices
Bonnie Chavez (BC-219, ext. 2508)
Daniel Wrentmore (BC-215, ext. 2840)

Scheinfeld Center for Entrepreneurship & Innovation
Scheinfeld.sbcc.edu
Under the aegis of the Business Administration Department, the Scheinfeld Center for Entrepreneurship & Innovation is where students from any discipline can access the tools, resources and mentorship needed to start or grow their business. The Scheinfeld Center supplements the Business Administration courses in Entrepreneurship with an entrepreneurial internship program, the Enlightened Entrepreneurship Speaker Series, and the regional New Venture Challenge business plan and pitch competition. The Scheinfeld Center hosts the Small Business Development Center (SBDC) of Santa Barbara, which provides no-cost business consulting to students and the community. Additionally, the Scheinfeld Center hosts the Center for International Trade and Development (CITD) to assist businesses with international expansion through importing and exporting. The Scheinfeld Center is located in BC-220 and is open Monday through Friday, with scheduled and drop-in appointments available.

College Requirements
For complete information, see “Graduation Requirements” in the Catalog Index.

Requirements for AA Degree: Business Administration
The Associate Degree will be awarded upon completion of department and college requirements.

Department Requirements (26 units)
ACCT 230 — Financial Accounting .................................5
ACCT 240 — Managerial Accounting .............................4
BLAW 101 — Business Law or BLAW 110 — Legal Environment of Business ......................4
BUS 101 — Introduction to Business ..............................3
CIS 101 — Intro to Computers and Information Systems ...4
ECON 101 — Microeconomics ......................................3
ECON 102 — Macroeconomics .....................................3
Optional:
BUS 290 — Work Experience in Business Admin..............1-4
ACCT 1 (210) and 2 (220) will also satisfy these requirements.
Note: Each required course must be completed with a minimum grade of “C”.

College Requirements
For complete information, see “Graduation Requirements” in the Catalog Index.

Requirements for AA Degree: Business Administration—Emphasis in Entrepreneurship
The Associate Degree will be awarded upon completion of department and college requirements.

Department Requirements (29.5 units)
BUS 101 — Introduction to Business ................................... 3
COMP 139 — Social Networking for Business .......................... 0.5
ENT 201 — Intro to Entrepreneurship and Innovation .............. 2
ENT 202 — Entrepreneurship: Idea to Business Model ............ 3
ENT 203 — Marketing Plan Development .................................. 3
ENT 204 — New Venture Management or
  ENT 247 — Managing Info Sys for Entrepreneur ................. 3
ENT 205 — Financial Management for Startups ..................... 3
ENT 206 — Enterprise Launch ............................................. 3
ENT 207 — Entrepreneurship Law ........................................ 3
ENT 208 — Business Plan Development .................................. 3
MKT 220 — Introduction to Electronic Commerce or
  CIS 220 — Introduction to Electronic Commerce ................. 3

Note: Each required course must be completed with a minimum grade of “C”.

College Requirements
For complete information, see “Graduation Requirements” in the Catalog Index.

Requirements for AA Degree: Business Administration—Emphasis in Management
The Associate Degree will be awarded upon completion of department and college requirements.

Department Requirements (25 units)
ACCT 230* — Financial Accounting ........................................ 5
BLAW 110 — Legal Environment of Business ............................ 4
RE 101 — Real Estate Principles ........................................... 3
RE 102 — Real Estate Practices ............................................ 3
RE 203 — Real Estate Finance ............................................. 3
RE 204 — Legal Aspects of Real Estate .................................. 3
RE 205 — Real Estate Appraisal (Residential) ......................... 3
RE 207 — Property Management .......................................... 3

Note: Each required course must be completed with a minimum grade of “C”.

College Requirements
For complete information, see “Graduation Requirements” in the Catalog Index.

Requirements for AS Degree: Real Estate
The Associate Degree will be awarded upon completion of department and college requirements.

Department Requirements (27 units)
ACCT 230 — Financial Accounting ........................................ 5
BLAW 101 — Business Law .................................................. 4
RE 101 — Real Estate Principles ........................................... 3
RE 102 — Real Estate Practices ............................................ 3
RE 203 — Real Estate Finance ............................................. 3
RE 204 — Legal Aspects of Real Estate .................................. 3
RE 205 — Real Estate Appraisal (Residential) ......................... 3
RE 207 — Property Management .......................................... 3

Note: Each required course must be completed with a minimum grade of “C”.

College Requirements
For complete information, see “Graduation Requirements” in the Catalog Index.

Requirements for AS-T Degree: Business Administration for Transfer
The Business Administration program gives students general business knowledge in managerial controls, economics of business, human resources (personnel), labor relations, business risks, interaction of government and business law, production and
distribution. They provide the foundations for areas of specialization, such as accounting, finance, or marketing management.

The Associate in Science Degree in Business for Transfer provides students with the foundational knowledge in business to make a successful transition to a Baccalaureate Degree in Business program at any of the CSU campuses.

Degree Requirements
Complete 60 CSU-transferable units including general education, major requirements and CSU-transferable electives as follows:

I. General Education
Complete one of the following patterns:
- Intersegmental General Education Transfer Curriculum “IGETC” for CSU (34-40 semester units)
- California State University General Education Breadth pattern (39 semester units)

II. Major
Complete 30-33 units as outlined below with a “C” or better in each course. Pass/No Pass grading is not permitted in a course within a student’s major area of study. The courses completed for the major may also be used to fulfill General Education areas on the IGETC or the CSU GE Breadth.

Required Core Courses (19 units)
ACCT 230 — Financial Accounting ................................................5
ACCT 240 — Managerial Accounting .................................................4
BLAW 101 — Business Law or .........................................................4
      BLAW 110 — Legal Environment of Business .................................4
ECON 101* — Microeconomics ..........................................................3
ECON 102* — Macroeconomics ..........................................................3

List A: Select one course from the following (4-5 units)
PSY 150* — Statistics for the Behavioral Sciences or ..................4
      MATH 117* — Elementary Statistics or .................................4
      MATH 117H* — Elementary Statistics, Honors ..........................4
MATH 130* — Calculus for Biol Sciences, Social Sciences and Business or .................5
      MATH 150* — Calculus with Analytic Geometry I ........................5

List B: Select two courses from the following (7-9 units)
Any course not taken in List A
CIS 101 — Introduction to Computers and Information Systems or .........................................................4
CS 101 — Computer Concepts or .................................................4
COMP 101 — Introduction to Computer Applications ........................4
BUS 101 — Introduction to Business or ........................................3
      COMP 271 — Business Communications ..................................3

These courses fulfill an IGETC and/or a CSU GE Breadth pattern requirement. Visit www.assist.org or http://articulation.sbcc.edu/ for IGETC and CSU GE Breadth requirements.

III. CSU-Transferable Electives
Complete as many units as needed to reach a total of 60 CSU-transferable units (for a list of SBCC transferable courses to CSU, visit www.assist.org).

Additional Graduation Requirements for AS-T in Business Administration:
- Maintain a cumulative CSU-transferable GPA of 2.0.
- Residency Requirements: Candidates for an Associate Degree are expected to complete 15 semester units in residence at SBCC. Candidates for an Associate Degree are also expected to complete at least 20% of the department major requirements in residence at SBCC.

Requirements for Certificate of Achievement: Business Administration — Emphasis in Management
Department Requirements (25 units)
ACCT 230 — Financial Accounting ................................................5
BLAW 110 — Legal Environment of Business ..................................4
BUS 101 — Introduction to Business ............................................3
BUS 103 — Business Mathematics .................................................3
CIS 101 — Introduction to Computers and Information Systems ..................4
MGMT 101 — Introduction to Management .....................................3
MGMT 102 — Leadership in Organizations .....................................3
Optional:
BUS 290 — Work Experience in Business Admin ......................... 1-4

*ACCT 1 (210) will also satisfy this requirement.
Note: Each required course must be completed with a minimum grade of “C”.

Requirements for Certificate of Achievement: Business Administration — Emphasis in Entrepreneurship

Department Requirements (29.5 units)

BUS 101 — Introduction to Business ..................3
ENT 201 — Intro to Entrepreneurship and Innovation ......2
ENT 202 — Entrepreneurship: Idea to Business Model ......3
ENT 203 — Marketing Plan Development ..................3
COMP 139 — Social Networking for Business ............0.5
ENT 204 — New Venture Management or ..................3
ENT 247 — Managing Info Sys for Entrepreneur ............3
MKT 220 — Introduction to Electronic Commerce or COMP 220 — Introduction to Electronic Commerce ......3
ENT 205 — Financial Management for Startups ..........3
ENT 206 — Enterprise Launch ................................3
ENT 207 — Entrepreneurship Law ........................3
ENT 208 — Business Plan Development ..................3

Note: Each required course must be completed with a minimum grade of “C”.

Requirements for Certificate of Achievement: Real Estate

Department Requirements (27 units)

ACCT 230 — Financial Accounting ........................5
BLAW 101 — Business Law ...............................4
RE 101 — Real Estate Principles ...........................3
RE 102 — Real Estate Practices ............................3
RE 203 — Real Estate Finance .............................3
RE 204 — Legal Aspects of Real Estate .....................3
RE 205 — Real Estate Appraisal (Residential) .............3
RE 207 — Property Management ..........................3

Note: Each required course must be completed with a minimum grade of “C”.

Requirements for Skills Competency Award:

Business Administration, Level I

Department Requirements (12-13 units)

BUS 101 — Introduction to Business ..........................3
MGMT 101 — Introduction to Management ................3
ENT 204 — New Venture Management .......................3
Plus 3 units of controlled electives selected from the following:
ACCT 110 — Introduction to Accounting ......................4
BLAW 110 — Legal Environment of Business .................4
CIS 101 — Intro to Computers and Information Systems ....4
COMM 151 — Intercultural Communication ................3
COMM 161 — Communication in Organizations or COMM 162 — Mediated Communication in Organizations ........3
CS 101 — Computer Concepts .............................4
ECON 101 — Microeconomics ................................3
ECON 102 — Macroeconomics .............................3
FIN 202 — Managerial Finance ............................3

Students must complete the above courses with the grade of “C” or higher or pass in all courses. Candidates for a Skills Competency Award are required to complete at least 20% of the department requirements through SBCC.

Requirements for Skills Competency Award:

Business Administration, Level II

Skills Competency Award Requirements:

Students must have successfully completed the requirements specified in the SCA in Business Administration, Level I (12-13 units).

Department Requirements (24-26 units)

BUS 103 — Business Mathematics ..........................3
ENT 208 — Business Plan Development .....................3
MGMT 102 — Leadership in Organizations ................3

Plus 3 units of controlled electives selected from the following (cannot be the same as those controlled electives selected to complete the SCA in Business Administration, Level I):

ACCT 110 — Introduction to Accounting ......................4
BLAW 110 — Legal Environment of Business .................4
CIS 101 — Intro to Computers and Information Systems ....4
要求技能竞争力奖

创业

部门要求（23学分）

ENT 201 — Introduction to Entrepreneurship/Innovation............2
ENT 202 — Entrepreneurship: Idea to Business Model.............3
ENT 203 — Marketing Plan Development............................3
ENT 204 — New Venture Management...............................3
ENT 205 — Financial Management for Startups.....................3
ENT 206 — Enterprise Launch.........................................3
ENT 207 — Entrepreneurship Law.....................................3
ENT 208 — Business Plan Development...............................3

学生必须完成上述课程，每门课程需得“C”或更高分。获得技能竞争力奖的候选人需完成至少20％的部门要求。通过SBCC。

要求技能竞争力奖

创业网页设计，第一级

部门要求（20学分）

ENT 201 — Introduction to Entrepreneurship/Innovation............2
ENT 202 — Entrepreneurship: Idea to Business Model.............3
ENT 203 — Marketing Plan Development............................3
ENT 204 — New Venture Management...............................3
MAT 110 — Media Design ..............................................3
MAT 131 — Digital Imaging I..........................................3
MAT 153 — Web Design I...............................................3

学生必须完成上述课程，每门课程需得“C”或更高分。获得技能竞争力奖的候选人需完成至少20％的部门要求。通过SBCC。

项目成本和成果

为了规划目的，下面的网页提供了有关学费、项目时长（假设为全职学生）、融资选择和历史学生完成率的信息：

Business Administration: Emphasis in Management
www.sbcc.edu/financialaid/gainfulemployment/Business%20Administration%20Emphasis%20in%20Management.htm

Business Administration:
Emphasis in Small Business Development

Real Estate
http://www.sbcc.edu/financialaid/gainfulemployment/Real%20Estate.htm
Business Administration Courses

BUS 101 — Introduction to Business
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Examiness economic activity in the American free enterprise system. Provides students with a broad understanding of: social responsibility and ethics, government regulations, business law, globalization, technology and e-commerce, economic and financial systems, securities markets, management, marketing, accounting and finance.

BUS 103 — Business Mathematics
(3) — CSU
Skills Advisories: MATH 1
Hours: 54 lecture
Arithmetic approach used to solve business problems dealing with interest, depreciation, percentage, discounts, pricing merchandise, bank discounts, stocks and bonds, partial payments payroll, small loans and installment purchases.

BUS 290 — Work Experience in Business Administration
(1-4) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 60-300 lab
Consists of supervised employment for students whose career objectives, course of study and employment complement each other. Students must accomplish specific course objectives. Class meetings on campus are scheduled each semester.

Business Law Courses

BLAW 101 — Business Law
(4) — CSU, UC*
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: BUS 101
Hours: 72 lecture
Fundamental legal principles pertaining to business transactions. Introduction to the legal process. Topics include sources of law and ethics, contracts, torts, agency, criminal law, business organizations, and judicial and administrative processes. (*UC transfer limit: BLAW 101, 102, 110 combined: maximum credit, one course)

BLAW 102 — Business Law
(3) — CSU, UC*
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: BLAW 101 or 110
Hours: 54 lecture
Study of the law concerning business organization, negotiable instruments, personal property, real property, wills, estates and trusts, insurance, etc. (*UC transfer limit: BLAW 101, 102, 110 combined: maximum credit, one course)

BLAW 110 — Legal Environment of Business
(4) — CSU, UC*
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: BUS 101
Hours: 72 lecture
Study of the law concerned with the courts, business enterprises, ethics, the Constitution, torts, crimes, contracts, commercial paper, real/personal property, secured transactions, security regulations, bankruptcy, employment, antitrust, administrative and international law. (*UC transfer limit: BLAW 101, 102, 110 combined: maximum credit, one course)

Entrepreneurship Courses

ENT 201 — Introduction to Entrepreneurship and Innovation
(2) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: BUS 101
Hours: 36 lecture
Provides students with a comprehensive overview of the vital importance of entrepreneurship in the 21st century global economy, and the critical role that innovation and creativity play in the entrepreneurial process. Students examine and reflect on their own entrepreneurial potential and evaluate the challenges and rewards of entrepreneurship.

ENT 202 — Entrepreneurship: Idea to Business Model
(3) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: BUS 101 and ENT 201
Hours: 54 lecture
Participants explore various business opportunities, and analyze them using business modeling tools to ascertain the market potential of a new venture. A
significant amount of time is devoted to analyses of industries, markets, competitors and customers.

**ENT 203 — Marketing Plan Development**  
(3) — CSU  
*Skills Advisories: Eligibility for ENG 110 or 110H*  
*Course Advisories: ENT 202*  
*Hours: 54 lecture*

Examines key marketing variables, including market analysis, branding, strategic positioning, market segmentation and the development of a marketing plan. Students develop marketing strategies to improve sales performance and close rates, increase customer loyalty and retention, and craft a unique competitive advantage.

**ENT 204 — New Venture Management**  
(3) — CSU  
*Skills Advisories: Eligibility for ENG 110 or 110H*  
*Course Advisories: BUS 101*  
*Hours: 54 lecture*

Explores issues facing the entrepreneur in the day-to-day operations of a newly-formed/existing business and provides applied problem-solving techniques. Students examine core operations management concepts involving operations strategy, project management, forecasting, inventory management, materials requirement planning, scheduling, supply chain management, quality control and human resource management.

**ENT 205 — Financial Management for Startups**  
(3) — CSU  
*Skills Advisories: Eligibility for ENG 110 or 110H and proficiency in MATH 95*  
*Course Advisories: BUS 101*  
*Hours: 54 lecture*

Explores the financial issues that affect the creation of a startup, including business accounting and financial statement literacy, and forecasting techniques. Students investigate various sources and methods for raising startup capital.

**ENT 206 — Enterprise Launch**  
(3) — CSU  
*Skills Advisories: Eligibility for ENG 110 or 110H*  
*Course Advisories: BUS 101*  
*Hours: 54 lecture*

Students engage in the rapid development of a product or service in a single semester by creating a prototype, obtaining customer feedback and validation, and making early sales.

**ENT 207 — Entrepreneurship Law**  
(3) — CSU  
*Skills Advisories: Eligibility for ENG 110 or 110H*  
*Course Advisories: BUS 101*  
*Hours: 54 lecture*

Examines the legal implications involved in the creation of a startup. Specific legal considerations concerning business entity formation, intellectual property, cyber law, employment law, contracts, tax law and bankruptcy.

**ENT 208 — Business Plan Development**  
(3) — CSU  
*Skills Advisories: Eligibility for ENG 110 or 110H*  
*Course Advisories: ENT 202 and 203 and 204 and 205*  
*Hours: 54 lecture*

Students develop and write a comprehensive market-ready business plan for a startup. Examines a variety of entrepreneurial issues in the business planning process, including: customer validation, product development, marketing, management, financing and ongoing operations.

**ENT 247 — Managing Information Systems for the Entrepreneur**  
(3) — CSU  
*Skills Advisories: Eligibility for English 110 or 110H*  
*Hours: 54 lecture*

Introduction to management of information technology for the entrepreneur.

**Management Courses**

**MGMT 101 — Introduction to Management**  
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 110 or 110H*  
*Course Advisories: BUS 101*  
*Hours: 54 lecture*

Examines the basic management functions of planning, organizing, leading and controlling. Included is an examination of key management concepts involving strategic planning, decision-making, organizational behavior, ethics and social responsibility, team building, diversity and the role of manager as leader.
MGMT 102 — Leadership in Organizations
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: BUS 101
Hours: 54 lecture
Overview of leadership in organizations at the individual and group levels, providing for the preparation and practice of effective leadership in various group and organizational environments.

Real Estate Courses

RE 101 — Real Estate Principles
(3) — CSU
Skills Advisories: MATH 1 and eligibility for ENG 110 or 110H
Course Advisories: RE 101
Hours: 54 lecture
Provides the student with introductory knowledge of principles useful to consumers and investors. Required for salesperson’s examination.

RE 102 — Real Estate Practices
(3) — CSU
Skills Advisories: MATH 1 and eligibility for ENG 110 or 110H
Course Advisories: RE 101
Hours: 54 lecture
Fundamental real estate practices affecting the ownership and transfer of real property interests; operating a real estate business; techniques and procedures of real property transactions; buying and leasing real property for residency and investment. One of eight required courses for those who wish to take the California Real Estate Broker’s Examination.

RE 203 — Real Estate Finance
(3) — CSU
Skills Advisories: MATH 1 and eligibility for ENG 110 or 110H
Course Advisories: RE 101
Hours: 54 lecture
Analysis of money markets, interest rates and real estate financing. Guidelines for financing real property, including residential, multi-family, commercial and special-purpose property. One of eight required courses for those who wish to take the California Real Estate Broker’s Examination.

RE 204 — Legal Aspects of Real Estate
(3) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: RE 101
Hours: 54 lecture
Applied study of California real estate for knowledge of procedures for transfer, use and acquisition of property. Elements of contracts, leases and escrow instructions covered. One of eight required courses for those who wish to take the California Real Estate Broker’s Examination.

RE 205 — Real Estate Appraisal (Residential)
(3) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: RE 101
Hours: 54 lecture
Study of methods and procedures for determining value and depreciation of real property and the factors which affect the loan, market and insurance values of residential property. One of eight required courses for those who wish to take the California Real Estate Broker’s Examination.

RE 207 — Property Management
(3) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: RE 101
Hours: 54 lecture
Study of the responsibilities of real property management and the review of influences on the real estate market. Discussion of management techniques including planning, tenant selection, review of and writing leases, property maintenance, record keeping requirements, client relations, and related law. One of eight courses required for the California Real Estate Broker’s Exam.
Chemistry

Degree
Associate in Arts: Chemistry

Program Description
The Chemistry Department offers courses for both Chemistry majors and non-Chemistry majors. An Associate in Arts Degree may be earned. In addition, the department offers chemistry courses required by other departments.

There is virtually no area of science that is unaffected by discoveries in the field of chemistry. The exploration of our solar system is made possible by the development of exotic fuels for rockets, special ceramics to dissipate the enormous heat generated by re-entry into the atmosphere, and light-weight, high-strength alloys for the space vehicles themselves. A coalition of chemists and biologists is attempting to correct defects in living organisms through genetic engineering, while other chemists work with doctors to create synthetic body parts and to alleviate suffering through the design of new or more effective drugs. Additionally, chemists are helping to increase the world’s food supply, to develop synthetic fuels, and to produce extremely pure chemicals for use in computers and energy-conversion devices.

Because chemistry touches so many areas of human activity, it is essential that each individual have some understanding of basic chemical principles. Only in this way can citizens make intelligent decisions concerning applications of technology.

Program Student Learning Outcomes
1. Demonstrate proficiency in solving chemical mathematical problems.
2. Demonstrate proficiency in describing atomic structure, bonding and periodic trends.
3. Demonstrate proficiency in naming and writing chemical formulas.
4. Demonstrate proficiency in writing balanced chemical equations and performing stoichiometric calculations.
5. Demonstrate proficiency in predicting the outcome of chemical reactions.
6. Demonstrate proficiency in assembling laboratory glassware and performing laboratory techniques.
7. Demonstrate proficiency in making and recording experimental observations and interpreting the results.

Requirements for AA Degree: Chemistry
The Associate Degree is awarded upon completion of both department and college requirements.

Department Requirements (28.8-30.8 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 155 — General Chemistry I</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 156 — General Chemistry II</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 211 — Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 212 — Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 221 — Organic Chemistry Lab I</td>
<td>2.3</td>
</tr>
<tr>
<td>CHEM 222 — Organic Chemistry Lab II</td>
<td>2.5</td>
</tr>
</tbody>
</table>

Controlled Electives (8 units) selected from the following:
- MATH 117 or 117H, 130, 131, 137, 138, 150, 160, 200, 210, 220; PHYS 105, 106, 121, 122, 123

**MATH 140 (21)/141 (22) and 250/260 may also count toward the Controlled Electives requirement.

College Requirements
For complete information, see “Graduation Requirements” in the Catalog Index.

Preparation for Transfer
Course requirements for transfer vary depending upon the college or university a student wishes to attend. Therefore, it is most important for a student to consult a counselor before planning an academic program for transfer. Articulation agreements for majors outlining transfer requirements are available on the ASSIST website at www.assist.org.
Planning a Program of Study
Since many Chemistry courses have mathematics classes as prerequisites, it is important for students majoring in Chemistry to complete these courses prior to beginning the program.

General Chemistry (CHEM 155 and 156) is offered every semester, including the summer. The one-year organic sequence begins in the Fall Semester with CHEM 211 and 221, and is completed in the Spring Semester with CHEM 212 and 222. Students must complete CHEM 156 before being able to enroll in CHEM 211 and 221.

Honors and Awards
Outstanding Chemistry Students and Book Awards
Each year the faculty of the Chemistry Department select a student from each of the chemistry courses who has clearly demonstrated academic excellence and outstanding scholarly achievement in Introductory Chemistry (CHEM 101), Fundamentals of General, Organic, and Biological Chemistry (CHEM 104), General Chemistry (CHEM 155 and 156), or Organic Chemistry (CHEM 211, 212, 221, and 222) to be the Outstanding Chemistry Student in the respective area.

In addition, several Book Awards are given to outstanding students, such as the Dr. Preston B. Moore Chemistry Book Award in recognition of a student’s commitment to research in a field of chemistry.

Department Resources
Tutorial Opportunities
In most semesters, the Chemistry Department is able to hire student tutors to provide group tutoring sessions to students enrolled in many of the courses in the department. Students who have demonstrated a high level of understanding of chemistry and have expressed an interest in teaching, are encouraged to apply for these positions.

Special Departmental Resources
The Chemistry Department offers laboratories that contain state-of-the-art instruments, including infrared spectrophotometers, UV-vis spectrophotometers, gas chromatography, and a nuclear magnetic resonance spectrometer.

Advising
In addition to the services provided by college counselors for the sciences and by the Career Center, department members offer advisement regarding Chemistry courses and career opportunities in chemistry. For information about the Chemistry Program at Santa Barbara City College, contact Dr. Jens-Uwe Kuhn, PS-217, (805) 730-4319.

Chemistry Courses
CHEM 101 — Introductory Chemistry
(4) — CSU, UC*
Skills Advisories: MATH 95 and Eligibility for ENG 98 and 103
Hours: 108 (54 lecture, 54 lab)
Introduction to Chemistry, with laboratory. Topics include atomic structure, matter and energy, the Periodic Table, chemical properties and reactions, nomenclature, behavior of gases, liquids and solids, intermolecular forces, acid-base chemistry and nuclear chemistry. Recommended for non-science majors as a science with a laboratory course or as a preparatory course for CHEM 155. (*UC Transfer Limit: CHEM 101 and 104 combined: maximum credit, one course; no credit for CHEM 101 or 104 if taken after 155)

CHEM 104 — Fundamentals of General, Organic and Biological Chemistry
(4) — CSU, UC*
Skills Advisories: MATH 95 and Eligibility for ENG 98 and 103
Hours: 108 (54 lecture, 54 lab)
Introduction to chemistry, with emphasis on chemical principles and their application to biological systems and processes. Approximately half of the semester covers general chemistry topics, with the remainder covering an introduction to organic chemistry topics and biochemistry topics. Recommended for non-science majors, especially those in the fields of allied health, nursing (ADN), and physical education. (*UC Transfer Limit: CHEM 101 and 104 combined: maximum credit, one course; no credit for CHEM 101 or 104 if taken after 155)

CHEM 155 — General Chemistry I
(5) — CSU, UC
Prerequisites: CHEM 101 or 104 or one year of high school chemistry and MATH 107 or 111
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 126 (72 lecture, 54 lab)
First semester of a two-semester General Chemistry course sequence. Includes laboratory. Topics include the structure of atoms and molecules, stoichiometry,
types of chemical bonding and chemical reactions, gas laws, molecular structure, acid-base chemistry, and thermodynamics. Laboratory focuses on collection and interpretation of data, and includes spectroscopy. Required for science, engineering and pre-dental and pre-medical majors.

CHEM 156 — General Chemistry II
(5) — CSU, UC  
Skills Advisories: MATH 107 or 111 and Eligibility for ENG 110 or 110H  
Hours: 126 (72 lecture, 54 lab)

Second semester of a two-semester General Chemistry course sequence. Includes laboratory. Topics include thermodynamics, chemical equilibrium, chemical kinetics, electrochemistry, and chemical applications. Laboratory focuses on collection and interpretation of data, and includes quantitative analysis and spectroscopy. Required for science, engineering and pre-dental and pre-medical majors.

CHEM 211 — Organic Chemistry I
(3) — CSU, UC*  
Prerequisites: CHEM 156  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture

First semester of a two-semester Organic Chemistry course sequence. Topics cover the study of fundamental principles of organic chemistry and includes structure, functional groups, nomenclature, stereochemistry, organic reactions, syntheses and mechanisms, as well as spectroscopic methods. Intended for students in chemistry, chemical engineering, biology, pre-med, pre-dental and related programs. Concurrent enrollment in CHEM 221 recommended. (*UC Transfer Limit: CHEM 211 and 221 combined: maximum credit, 5 units)

CHEM 221 — Organic Chemistry Laboratory I
(2.3) — CSU, UC*  
Corequisites: CHEM 211  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 90 (18 lecture, 72 lab)

First-semester Organic Chemistry laboratory. Focuses on organic chemistry laboratory techniques, including techniques of separation, purification and identification of organic compounds. Includes IR spectroscopy, distillation, crystallization, extraction, determination of physical properties and microscale techniques. (*UC Transfer Limit: CHEM 211 and 221 combined: maximum credit, 5 units)

CHEM 212 — Organic Chemistry II
(3) — CSU, UC*  
Prerequisites: CHEM 211  
Corequisites: CHEM 212  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture

Second semester of a two-semester Organic Chemistry course sequence. Topics further study the fundamental principles of organic chemistry, with emphasis on organic syntheses and reaction mechanisms, as well as spectroscopic methods. Intended for students in chemistry, chemical engineering, biology, pre-med, pre-dental and related programs. Concurrent enrollment in CHEM 222 recommended. (*UC Transfer Limit: CHEM 212 and 222 combined: maximum credit, 5 units)

CHEM 222 — Organic Chemistry Laboratory II
(2.5) — CSU, UC*  
Prerequisites: CHEM 221  
Corequisites: CHEM 212  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 135 lab

Second-semester Organic Chemistry laboratory. Focuses on organic syntheses and corresponding organic chemistry laboratory techniques, including techniques of separation, purification and identification of organic compounds. Includes IR spectroscopy, NMR, distillation, crystallization, extraction, determination of physical properties and microscale techniques. (*UC Transfer Limit: CHEM 212 and 222 combined: maximum credit, 5 units)

CHEM 299 — Independent Research in Chemistry
(1-4) — CSU  
Limitation on Enrollment: To be eligible for independent study, a student must have completed 12 units at SBCC with a GPA of 2.5 and a minimum of 4 units with a GPA of 3.0 in the Chemistry Department.  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 48-192 lecture

Independent, systematic research investigation of a problem in Chemistry. A final report on research conducted is required. For Chemistry students who are capable and interested in pursuing studies in Chemistry at a level beyond that covered in regular classes.
Communication

Degrees
Associate in Arts Degree: Communication:
  Applied Communication Emphasis
Associate in Arts Degree: Communication:
  Communication Science Emphasis
Associate in Arts Degree (AA-T):
  Communication Studies for Transfer

Program Description
Whatever their age, social position, or occupation, people communicate. In fact, we spend more time engaged in speaking and listening than virtually any other activity. Communication is as important as it is pervasive—success or failure often depends on how well we express ourselves and understand others. Recognizing this fact, the Communication Department offers a wide range of courses to help students become more skillful, aware communicators.

The department’s curriculum focuses on communication in a variety of settings—interpersonal, small group, organizational, presentational, via mass media and between cultures and nations. In addition, instruction is available in argumentation, debate, communication theory and research methods.

Students enroll in Communication courses for a variety of reasons. Some have primarily academic motives and seek either an associate, baccalaureate, or advanced degree in Communication. Other students enroll to become more effective in their careers. Still others seek personal growth, recognizing the importance of skillful self-expression and understanding others in their own lives.

Surveys show that most employers rank effective communication at the top of desired skills. As a result, many organizations look favorably upon applicants with proven ability to speak and listen skillfully. While communication is important in virtually any career, certain fields and positions are especially well-suited for Communication graduates—management, public information, broadcasting, personnel training, sales and law, among others.

Students who choose the Communication Degree Program can gain valuable speaking skills by participating in our annual Lancaster Speech Showcase. Students will also have the opportunity to gain knowledge about Communication by participating in community and global projects through their classes. Qualified students also have the opportunity to be part of Sigma Chi Eta, an honor society for students earning a 3.0 or higher in the major. Students can also choose to take classes in one of the many Study Abroad programs offered each year. Past study abroad programs include Italy, Australia, India, Rwanda, South Africa, and Cuba.

The Communication Department at Santa Barbara City College offers two areas of emphasis within the AA Degree in Communication—a Communication Science Emphasis and an Applied Communication Emphasis. The Communication Science Emphasis provides students with the foundational knowledge in communication theory and research methods and prepares them to make a successful transition to a Baccalaureate Degree in Communication Studies at any of the UC campuses, particularly UC, Santa Barbara. The Applied Communication Emphasis provides students with foundational knowledge in Communication Studies and its application in a variety of settings—interpersonal, small group, organizational, presentational speaking, mass media and intercultural.

In addition, the Communication Department offers an AA-T Degree in Communication Studies for Transfer. This degree provides the foundational knowledge in Communication Studies to students who want to earn a Baccalaureate Degree in Communication Studies. This degree is in compliance with the Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code, Sections 66746-66749) and guarantees admission to a California State University (CSU) campus for any community college student who completes an “Associate Degree for transfer,” a newly established variation of the Associate Degrees traditionally offered at a California community college. Upon completion of the transfer Associate Degree, the student is eligible for transfer with junior standing to the California State University (CSU) system. Students will be given priority consideration when applying to a particular program that is similar to the student’s community college area of emphasis. For information on transfer degrees, visit www.sb1440.org.

Department Student Learning Outcomes
1. Demonstrate ability to analyze and critically evaluate communication practices, messages and outcomes in various contexts (e.g., interpersonal, intercultural, small group, public speaking, professional communication, and mass media).
2. Develop a repertoire of strategies for improved communication effectiveness and demonstrate the strategies in oral, written and/or presentation contexts.
3. Read, evaluate and report on communication research.
4. Recognize and articulate the benefits and challenges of diverse communicative practices of people living in a global/multicultural society.
5. Demonstrate understanding of the ethical dimensions of communication.

Department Offices
Division: Social Sciences
Carrie Hutchinson, Chair (BC-102B, ext. 4213)
Alice Perez, Dean (A-118, ext. 2354)

Faculty and Offices
Darin Garard (BC-102D, ext. 2997)
Sarah Hock (BC-102A, ext. 4395)
Carrie Hutchinson (BC-102B, ext. 4213)
Tina Kistler (BC-218, ext. 2571)
Cameron Sublett (BC-102C, cmsublett@sbcc.edu)

Requirements for AA Degree—Communication: Applied Communication Emphasis
The Associate Degree will be awarded upon completion of both department and college requirements.

Department Requirements (18 units)
COMM 121 — Interpersonal Communication or
COMM 121H — Interpersonal Communication, Honors or
COMM 122 — Mediated Interpersonal Communication...3
COMM 131 — Fundamentals of Public Speaking or
COMM 131H — Fundamentals of Public Speaking, Honors...3
COMM 141 — Small Group Communication...3
COMM 161 — Communication in Organizations or
COMM 162 — Mediated Comm. in Organizations...3

Plus at least two (2) courses from the following:
COMM 101 — Introduction to Communication...3
COMM 121 — Interpersonal Communication or
COMM 121H — Interpersonal Communication, Honors or
COMM 122 — Mediated Interpersonal Communication...3
COMM 131 — Fundamentals of Public Speaking or
COMM 131H — Fundamentals of Public Speaking, Honors...3
COMM 141 — Small Group Communication...3
COMM 151 — Intercultural Communication...3
COMM 171 — Mass Media and Society...3
COMM 235 — Argumentation and Debate...3
JOUR 101 — Reporting/Writing I...3

College Requirements
For complete information, see “Graduation Requirements” in the Catalog Index.

Requirements for AA Degree—Communication: Communication Science Emphasis
The Associate Degree will be awarded upon completion of both department and college requirements.

Department Requirements (19 units)
COMM 101 — Introduction to Communication...3
MATH 117 — Elementary Statistics or
MATH 117H — Elementary Statistics, Honors or
PSY 150 — Statistics for Behavioral Sciences...4
COMM 288 — Communication Research Methods...3
COMM 289 — Communication Theory...3

Plus at least two (2) courses from the following:
COMM 121 — Interpersonal Communication or
COMM 121H — Interpersonal Communication, Honors or
COMM 122 — Mediated Interpersonal Communication...3
COMM 131 — Fundamentals of Public Speaking or
COMM 131H — Fundamentals of Public Speaking, Honors...3
COMM 141 — Small Group Communication...3
COMM 151 — Intercultural Communication...3
COMM 171 — Mass Media and Society...3
COMM 235 — Argumentation and Debate...3
JOUR 101 — Reporting/Writing I...3

College Requirements
For complete information, see “Graduation Requirements” in the Catalog Index.

Requirements for AA-T Degree—Communication Studies for Transfer
The field of communication covers a wide range of topics. The major is designed to give students exposure to basic information in the discipline and provide the opportunity to focus on the areas that best suit their individual needs. Students should consult with a
departmental adviser and/or counselor when choosing both controlled and general electives in order to develop a program of study that is best suited to their specific needs. For example, requirements for the baccalaureate degree in Communication or Speech Communication vary from one institution to another. It is, therefore, essential to become familiar with the requirements of the institution a student plans to attend.

The Associate in Arts Degree in Communication Studies for Transfer provides students with the foundational knowledge in Communication Studies needed to make a successful transition into a Baccalaureate Degree in Communication Studies at any of the CSU campuses.

**Degree Requirements**
Complete 60 CSU-transferable units including general education, major requirements and CSU-transferable electives as follows:

**I. General Education**
*Complete one of the following patterns:*
- Intersegmental General Education Transfer Curriculum “IGETC” for CSU (34-40 semester units)
- California State University General Education Breadth pattern (39 semester units)

**II. Major**
Complete 18-24 units as outlined below with a “C” or better in each course. Pass/no pass grading is not permitted in a course within a student’s major area of study. The courses completed for the major may also be used to fulfill General Education areas on the IGETC or the CSU GE Breadth.

**Required Core Course (3 units):**
- COMM 131* — Fundamentals of Public Speaking
- COMM 131H* — Fundamentals of Public Speaking, Honors

**Electives List A:**
*Select two courses from the following (6 units):*
- COMM 121* — Interpersonal Communication
- COMM 121H* — Interpersonal Communication, Honors

**Electives List B:**
*Select two courses from the following (6-10 units):*
*Any course not taken in List A*
- ANTH 101* — Physical Anthropology
- ANTH 101H* — Physical Anthropology, Honors
- COMM 101* — Introduction to Communication
- COMM 151* — Intercultural Communication
- COMM 171* — Mass Media and Society
- ERTH 111/111L* — Dynamic Earth – Phys Geol and Lab
- ERTH 111H/111L* — Dynamic Earth – Physical Geology, Honors and Lab
- ERTH 112* — History of the Earth
- FR 103* — Intermediate French I
- FR 104* — Intermediate French II
- FS 104* — American Film to 1960s
- GER 103* — Intermediate German I
- GER 104* — Intermediate German II
- HIST 103* — History of Western Civilization
- HIST 104* — History of Western Civilization
- HIST 113H* — History of Western Civilization, Honors
- JOUR 135* — Public Relations
- MKT 135 — Public Relations
- JOUR 190 — Photojournalism
- PHOT 190 — Photojournalism
- MATH 117* — Elementary Statistics
- MATH 117H* — Elementary Statistics, Honors
- PSY 150* — Statistics for Behavioral Sciences
- SOC 118* — Media, Culture and Society
- SPAN 103* — Intermediate Spanish I
- SPAN 104* — Intermediate Spanish II

**Electives List C:**
*Select one course from the following (3-5 units):*
*Any course not taken in List A or List B and/or:
- ANTH 103* — Intro to Cultural Anthropology
- COMM 142 — Leadership Studies
COMM 161* — Communication in Organizations ..........3
COMM 288* — Communication Research Methods ..........3
COMM 289* — Communication Theory .......................3
ENG 111* — Critical Thinking and Composition through Literature or ..................................3
ENG 111H* — Critical Thinking and Composition through Literature, Honors or .....................3
JOUR 101 — Reporting/Writing I ...............................3
PSY 100* — General Psychology or ...............................3
PSY 100H* — General Psychology, Honors ...................4
SOC 101* — Introduction to Sociology or .........................3
SOC 101H* — Introduction to Sociology, Honors ...............3

III. CSU-Transferable Electives
Complete as many units as needed to reach a total of 60 CSU-transferable units (for a list of SBCC-transferable courses to CSU, visit www.assist.org).

Additional Graduation Requirements for AA-T in Communication Studies:
- Maintain a cumulative CSU-transferable GPA of 2.0.
- Residency Requirements: Candidates for an Associate Degree are expected to complete 15 semester units in residence at SBCC. Candidates for an Associate Degree are also expected to complete at least 20% of the department major requirements in residence at SBCC.

Planning a Program of Study
The field of communication covers a wide range of topics. The major is designed to give students exposure to basic information in the discipline and provide the opportunity to focus on the areas that best suit their individual needs.

Students should consult with a departmental adviser and/or counselor when choosing both controlled and general electives in order to develop a program of study that is best suited to their specific needs. For example, requirements for the baccalaureate degree in Communication or Speech Communication vary from one institution to another. It is, therefore, essential to become familiar with the requirements of the institution a student plans to attend.

Not all Communication courses are offered every semester. Students should plan carefully so that all required courses are included in their program of study.

Sample Program: Applied Communication Emphasis
First Year

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<th>Fall Semester</th>
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<tr>
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<td>COMM 121*</td>
<td>COMM 141*</td>
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Second Year

<table>
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<tr>
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<td>COMM 171*</td>
</tr>
<tr>
<td>COMM 151*</td>
<td>COMM 235</td>
</tr>
<tr>
<td>General Ed. Course</td>
<td>Elective**</td>
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Sample Program: Communication Science Emphasis
First Year

<table>
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<td>Elective**</td>
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Second Year

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</table>

*May be taken either Fall or Spring Semester.

**Electives allow students to focus on an area of special interest within the field of Communication—i.e. communication studies, rhetoric and public address, organizational communication and telecommunications. Consult with departmental adviser and/or counselor for further assistance.
Preparation for Transfer
Course requirements for transfer vary depending upon the college or university a student wishes to attend. Therefore, it is most important for a student to consult with his/her counselor and departmental adviser before planning an academic program for transfer. Information sheets for majors, outlining transfer requirements, are available in the Transfer Center.

Communication Courses

COMM 100 — Oral Communication for ESL Students
(3) — CSU
Course Advisories: ESL Level 4 (ESL 122 or 123 or 124)
Hours: 54 lecture
Introductory Communication course for students completing ESL Level V. Study and development of communication skills necessary for success in non-ESL courses. Includes dyadic communication and public speaking activities. Students participate in activities to reinforce learning of these skills.

COMM 101 — Introduction to Communication
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Introduction to the field of communication, with emphasis on the history of communication study, theories of communication, communication contexts, and issues in communication studies. Also serves as an introduction to the strands of communication studies: interpersonal, group, rhetoric, intercultural, organizational and mass communication.

COMM 121 — Interpersonal Communication
(3) — CSU, UC*
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Introduction to principles and skills of effective communication in interpersonal relationships with a focus on verbal and non-verbal channels, person perception, conflict resolution, listening and communication barriers. Study includes social science research and presentational speaking. (*UC Transfer Limit: COMM 121, 121H and 122 combined: maximum credit, one course)

COMM 121H — Interpersonal Communication, Honors
(3) — CSU, UC*
Skills Advisories: Eligibility for ENG 110 or 110H
Limitation on Enrollment: Honors Program Acceptance
Hours: 54 lecture
Introduction to principles of effective communication in interpersonal relationships, with a focus on verbal and nonverbal channels, person perception, conflict resolution, listening and communication barriers. Study includes social science research and presentational speaking. In-depth exploration of selected concepts of COMM 121. (*UC Transfer Limit: COMM 121, 121H and 122 combined: maximum credit, one course)

COMM 122 — Mediated Interpersonal Communication
(3) — CSU, UC*
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Introduction to the principles of interpersonal communication, with an emphasis on self-analysis, interpersonal relationship dynamics, research and effective oral presentation. (*UC Transfer Limit: COMM 121, 121H and 122 combined: maximum credit, one course)

COMM 131 — Fundamentals of Public Speaking
(3) — CSU, UC*
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Instruction in public speaking, stressing audience analysis, organization and support of ideas. Students prepare and deliver speeches on topics of current concern. Video-taped replays and instructor evaluation provide feedback on performance. (*UC Transfer Limit: COMM 131 and 131H combined: maximum credit, one course)

COMM 131H — Fundamentals of Public Speaking, Honors
(3) — CSU, UC*
Skills Advisories: Eligibility for ENG 110 or 110H
Limitation on Enrollment: Honors course
Hours: 54 lecture
Instruction in public speaking, stressing audience analysis, organization and support of ideas. Students prepare and deliver speeches on topics of current concern.
concern. Video-taped replays and instructor evaluation provide feedback on performance. (*UC Transfer Limit: COMM 131 and 131H combined: maximum credit, one course)

COMM 141 — Small Group Communication
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture

Introduction to communication skills in task-oriented small groups. Includes experiential focus on planning and implementation of small group projects, decision-making and problem-solving methods, along with task and social dimensions of effective group process.

COMM 142 — Leadership Studies
(3) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture

Designed to prepare and train students for campus, community or work-related leadership roles. Students explore leadership theories, principles and skills, such as understanding personal leadership strengths, working with others, diversity, team building, effective communication and making a difference. Practical application of concepts and skills emphasized.

COMM 151 — Intercultural Communication
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture

Provides an introduction to communication between people from different cultures. Focuses on the application of theory and research to intercultural communication. The topics and activities are designed to develop communication skills that improve competence in intercultural situations.

COMM 161 — Communication in Organizations
(3) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture

Examines communication in various organizational situations, focusing on the use of effective communication strategies for achieving organizational and individual goals. Emphasis is on identifying and amending ineffective communication within organizations.

COMM 162 — Mediated Communications in Organizations
(3) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture

Examines communication in various organizational situations, focusing on the use of effective communication strategies for achieving organizational and individual goals. Emphasis on identifying and amending ineffective communication within organizations based on organizational communication theory.

COMM 171 — Mass Media and Society
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture

Exploration of the history, effects and role of the mass media in the U.S. Major forms of mass communication are studied. Study focuses on critical analysis of media messages, effects of media on the individual and society, and theories of communication. Students move beyond being “consumers” of media to “analysts” of media.

COMM 235 — Argumentation and Debate
(3) — CSU, UC
Prerequisites: ENG 110 with a minimum grade of “C” or ENG 110H with a minimum grade of “C”
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture

Theory, practice and criticism of public advocacy. The use of propositions, evidence, reasons and the general rhetorical strategies of symbolic action to promote and advance one’s public or civic interests.

COMM 288 — Communication Research Methods
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: COMM 101
Hours: 54 lecture

Introduction to the theoretical and practical concerns underlying procedures most commonly used in communication research. Students evaluate findings of communication research and understand research methods. Serves as preparation for advanced coursework in communication.
COMM 289 — Communication Theory
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: COMM 101
Hours: 54 lecture

Introduction to major theories of human communication. Designed to give students critical understanding of key themes in the field, and to show how theories illuminate the nature of human interaction. Designed to prepare students for upper-division coursework in communication.

COMM 295 — Internship in Communication
(2-4) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Limitation on Enrollment: Completion of two courses in the Communication Department at SBCC prior to enrolling in Internship course
Five to 10 hours weekly on-the-job experience
Hours: 48-273 lab

Structured Internship program in which students gain experience with community organizations related to the discipline.

COMM 299 — Independent Study in Communication
(1-4) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Limitation on Enrollment: Six units of Communication courses completed with a grade point average of 3.5 or higher. Minimum of 12 units of coursework completed at SBCC with GPA of at least 3.0.
Hours: 48-192 lab

For complete information, see “Independent Study” in the Catalog Index. (*UC Transfer Limit: COMM 299 computed as Independent Studies; see a counselor)
Computer Applications and Office Management

Degrees, Certificates and Awards

Associate in Science: Computer Applications and Office Management: Emphasis in Office Management

Associate in Science: Computer Applications and Office Management: Emphasis in Business Software Specialist

Certificate of Achievement: Computer Applications and Office Management: Emphasis in Business Software Specialist

Certificate of Achievement: Computer Applications and Office Management: Emphasis in Office Management

Skills Competency Award: Office Assistant

Skills Competency Award: Computer Proficiency Online

Skills Competency Award: Business Communications

Program Description

The Computer Applications and Office Management Department (COMP) is in business—the technology education business. We live in a culture governed by the demands of digital life. This digital life blurs and transforms old boundaries between work and home, public and private. It requires ever-increasing levels of technology literacy and competency. Computer software tools and devices constantly evolve and expand, as well as the skills needed to use them.

COMP serves that need across the entire arc of digital life—whether your career is still in preparation (pre-career), in progress (workforce training), or in transition (changing careers or retirement).

Our mission is to develop “technology-savvy adults” who possess literacy and competency in software productivity applications and tools that are part and parcel of our everyday lives—In the office, in the home office and in personal living.

The COMP Department is designed to meet the needs of all students and working professionals with a desire to improve their computer skills. SBCC can design a personalized program of study to meet your needs for:

• An introductory course
• A workshop to update your skills
• An advanced skills class
• A Skills Competency Award
• A Certificate of Achievement
• Professional certification
• An Associate in Science Degree

You can take COMP courses in the way that best fits your lifestyle and schedule. Class formats include:

• On-campus/traditional
• Evening
• Online/distance learning
• Self-paced lab instruction
• Short courses

Program Student Learning Outcomes

1. Use the intermediate and advanced features of Microsoft Office (Word, Excel, Access, PowerPoint, Outlook) proficiently, according to professional business standards
2. Integrate the programs in the Microsoft Office suite for maximum productivity
3. Use the Internet as a research tool

Office Management Emphasis Certificate

1. Use the intermediate and advanced features of Microsoft Office (Word, Excel, Access, PowerPoint, Outlook) proficiently, according to professional business standards
2. Integrate the programs in the Microsoft Office suite for maximum productivity
3. Write effective business correspondence
4. Utilize correct accounting procedures
5. Supervise and manage employees effectively
6. Use the Internet as a research tool

Department Offices

Division: Business Education
Mindy Mass, Chair (BC-306, ext. 2260)
Melissa Moreno, Dean
(Wake Campus, Rm 1, (805) 683-8284)

Faculty and Offices

Mindy Mass (BC-306, ext. 2260)
Jennifer Robinson (BC-309, ext. 3726)
Requirements for Certificate of Achievement: Computer Applications and Office Management — Emphasis in Business Software Specialist
The Associate Degree will be awarded upon completion of both department and college requirements.

Department Requirements (28.5-31.5 units)
COMP 101 — Intro to Computer Applications .................4
COMP 103 — Internet Communications .........................1
COMP 107 — Microsoft Word ........................................4
COMP 109 — Microsoft Excel .......................................4
COMP 111 — Microsoft Access ......................................4
COMP 112 — Microsoft PowerPoint ..............................4
COMP 139 — Social Networking for Business ..................0.5
COMP 144B — Google World .........................................3
Choose two courses from the following:
ACCT 110 — Introduction to Accounting ....................4
ACCT 160 — Accounting with QuickBooks ...................3
BUS 101 — Introduction to Business ...........................3
COMP 150 — Voice Recognition ....................................1
MAT 103 — Introduction to Multimedia .........................3
MAT 154 — Web Design II: Integration ........................3
MKT 220/CIS 220 — Intro to Electronic Commerce ..........3
Optional:
COMP 290 — COMP Work Experience .......................1-4
Complete each required course with a minimum grade of “C”.

College Requirements
For complete information, see “Graduation Requirements” in the Catalog Index.

Requirements for AS Degree: Computer Applications and Office Management — Emphasis in Office Management
The Associate Degree will be awarded upon completion of both department and college requirements.

Department Requirements (40.5-48 units)
ACCT 110 — Introduction to Accounting ..........................4
BUS 101 — Introduction to Business .............................3
COMP 103 — Internet Communications ...........................1
COMP 107 — Microsoft Word ........................................4
COMP 109 — Microsoft Excel .......................................4
COMP 111 — Microsoft Access ......................................4
COMP 112 — Microsoft PowerPoint ..............................4
COMP 151AB — Beginning Computer Keyboarding or ......3
COMP 153 — Review Computer Keyboarding ................2
COMP 161C — Business Career Success ........................3
COMP 171 — Business English or ..................................3
COMP 271 — Business Communications .......................3
Select two courses from the following:
COMM 161 — Communication in Organizations or
COMM 162 — Mediated Comm. in Organizations ..........3
MGMT 101 — Introduction to Management ...................3
MGMT 102 — Leadership in Organizations ..................3
Select three courses from the following:
ACCT 160 — Accounting with QuickBooks ...................3
COMP 139 — Social Networking for Business ................3
COMP 143 — Using Your iPhone ...................................1
COMP 144B — Google World .........................................3
COMP 163 — Receptionist Skills ...................................1
MAT 103 — Introduction to Multimedia .........................3
MAT 154 — Web Design II: Integration ........................3
MKT 220/CIS 220 — Intro to Electronic Commerce ..........3
Optional:
COMP 290 — COMP Work Experience .......................1-4

Requirements for Certificate of Achievement: Computer Applications and Office Management — Emphasis in Office Management

Department Requirements (40.5-48 units)
ACCT 110 — Introduction to Accounting ..........................4
BUS 101 — Introduction to Business .............................3
COMP 103 — Internet Communications ...........................1
COMP 107 — Microsoft Word ........................................4

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<td>Microsoft PowerPoint</td>
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<tr>
<td>COMP 151AB</td>
<td>Beginning Computer Keyboarding <em>or</em></td>
<td>3</td>
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<tr>
<td>COMP 153</td>
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<td>COMP 271 — Business Communications</td>
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Select two courses from the following:

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<td>MGMT 102</td>
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<td>MAT 103</td>
<td>Introduction to Multimedia</td>
<td>3</td>
</tr>
<tr>
<td>MAT 154</td>
<td>Web Design II: Integration</td>
<td>3</td>
</tr>
<tr>
<td>MKT 220/CIS 220</td>
<td>Intro to Electronic Commerce</td>
<td>3</td>
</tr>
</tbody>
</table>

Optional:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP 290</td>
<td>COMP Work Experience</td>
<td>1-4</td>
</tr>
</tbody>
</table>

Certificate of Achievement Requirements: Complete all department requirements for the certificate with a “C” or better in each course. Candidates for a Certificate of Achievement are required to complete at least 20% of the department requirements through SBCC.

College Requirements

For complete information, see “Graduation Requirements” in the Catalog Index.

Skills Competency Award: Computer Proficiency Online

Department Requirements (16-17 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP 101</td>
<td>Intro to Computer Applications <em>or</em></td>
<td>4</td>
</tr>
<tr>
<td>COMP 144B</td>
<td>Google World</td>
<td>3</td>
</tr>
</tbody>
</table>

Students must complete the above courses with a grade of “C” or higher or credit in all courses.

Skills Competency Award: Office Assistant

Department Requirements (13-17 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP 101</td>
<td>Intro to Computer Applications</td>
<td>4</td>
</tr>
<tr>
<td>COMP 103</td>
<td>Internet Communications <em>or</em></td>
<td>1</td>
</tr>
<tr>
<td>COMP 142</td>
<td>Internet and E-mail for ESL</td>
<td>2</td>
</tr>
<tr>
<td>COMP 141</td>
<td>Keyboarding for ESL Students <em>or</em></td>
<td>2</td>
</tr>
<tr>
<td>COMP 151A</td>
<td>Basic Computer Keyboarding <em>or</em></td>
<td>1.5</td>
</tr>
<tr>
<td>COMP 155</td>
<td>Keyboarding Skill Development</td>
<td>1.5</td>
</tr>
<tr>
<td>COMP 161C</td>
<td>Business Career Success</td>
<td>3</td>
</tr>
<tr>
<td>COMP 171</td>
<td>Business English <em>or</em></td>
<td>3</td>
</tr>
<tr>
<td>COMP 271</td>
<td>Business Communications</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one course from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP 139</td>
<td>Social Networking for Business</td>
<td>0.5</td>
</tr>
<tr>
<td>COMP 144B</td>
<td>Google World</td>
<td>3</td>
</tr>
</tbody>
</table>

Students must complete the above courses with a grade of “C” or higher or credit in all courses.

Skills Competency Award: Business Communications

Department Requirements (13-15 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP 103</td>
<td>Internet Communications</td>
<td>1</td>
</tr>
<tr>
<td>COMP 107</td>
<td>Microsoft Word</td>
<td>4</td>
</tr>
<tr>
<td>COMP 112</td>
<td>Microsoft PowerPoint</td>
<td>4</td>
</tr>
<tr>
<td>COMP 171</td>
<td>Business English <em>or</em></td>
<td>3</td>
</tr>
<tr>
<td>COMP 271</td>
<td>Business Communications</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one course from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 181</td>
<td>Technical and Professional Writing <em>or</em></td>
<td>3</td>
</tr>
<tr>
<td>ENG 181</td>
<td>Technical and Professional Writing</td>
<td>3</td>
</tr>
<tr>
<td>COMM 131</td>
<td>Fundamentals of Public Speaking <em>or</em></td>
<td>3</td>
</tr>
<tr>
<td>COMM 131H</td>
<td>Fundamentals of Public Speaking, Honors</td>
<td>3</td>
</tr>
</tbody>
</table>

Santa Barbara City College Catalog 2016-2017
**Honors and Awards**

The Computer Applications and Office Management Department selects one student each year as Outstanding Student. The selection is made by the faculty in the department and is based on academic excellence or service to the department. No applications by students are required.

**Program Cost and Outcome**

For planning purposes, the webpages below provide information on the cost of attendance, program length (assuming a student attends full-time), financing options and historical student completion rates:

Computer Applications and Office Management (COMP): Emphasis in Business Software Specialist
www.sbcc.edu/financialaid/gainfulemployment/

Computer Applications and Office Management (COMP): Emphasis in Office Management
www.sbcc.edu/financialaid/gainfulemployment/

**Computer Applications and Office Management Courses**

**COMP 100 — Introduction to Computers**
(0.5)
*Hours: 9 lecture*

Learn to operate a computer: log in, navigate the desktop, open/close software, save/find files and folders, and use various media and shortcuts.

**COMP 101 — Introduction to Computer Applications**
(4) — CSU
*Skills Advisories: Eligibility for ENG 103
Course Advisories: COMP 151A
Hours: 72 lecture*

Introduction to computer applications for use “at work and at home.” Microsoft Office (Word, Excel, Access, PowerPoint), including Windows operating system, plus open source software, social networking and Web 2.0 productivity tools for collaborative teamwork.

**COMP 102 — Introduction to Digital Literacy I**
(1)
*Hours: 18 lecture*

Introduction to basic elements of computer/digital literacy. Includes using features of college’s web-based systems (Pipeline and Moodle) to communicate effectively and participate fully in college courses; managing, saving, retrieving and sharing files in a variety of digital formats; and basic word processing on a PC or Mac.

**COMP 103 — Internet Communications**
(1) — CSU
*Skills Advisories: Eligibility for ENG 103
Hours: 18 lecture*

Introduction to internet communications: how and when to use them (and safely), including World Wide Web, search engines, e-mail, chat, discussion, blogs, social networking tools, Web2.0 and instant messaging/texting.

**COMP 107 — Microsoft Word**
(4) — CSU
*Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: COMP 151AB
Hours: 72 lecture*

Designed for all computer users, course covers core features of Microsoft Word. Topics include page numbers, headers/footers, sections, styles, templates, outlines, graphics, Internet documents, columns, tables. Projects include reports, resumes, forms, letters, mailing labels, newsletters, web pages. Covers topics in Microsoft certification. Taught by MS-certified instructor.
COMP 108 — Microsoft Word: New Features (0.5) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: COMP 107
Hours: 9 lecture
Covers the new features in the latest version of Microsoft Word. Recommended for current users who need to make the transition to the new version quickly.

COMP 109 — Microsoft Excel (4) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: COMP 151AB
Hours: 72 lecture
Introduction to spreadsheets using Excel. Includes designing and building workbooks/worksheets, formatting, graphs, charts, decision-making, lists, data management and data exchange.

COMP 110 — Microsoft Excel: New Features (0.5) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: COMP 109
Hours: 9 lecture
Covers the new features in the latest version of Microsoft Excel. Recommended for current users who need to make the transition to the new version quickly.

COMP 111 — Microsoft Access (4) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: COMP 101 with a minimum grade of “C”.
Hours: 72 lecture
Introduction to the Microsoft Access database management system. This application course includes creating and maintaining database tables, creating macros, querying database tables, designing forms and creating reports.

COMP 112 — Microsoft PowerPoint (4) — CSU
Skills Advisories: Eligibility for ENG 103
Course Advisories: COMP 123
Hours: 72 lecture
Plan, create, modify and deliver effective presentations (on screen, in-person, and remotely on the Web), utilizing basic to expert features of Microsoft PowerPoint.

COMP 113A — Introduction to Microsoft PowerPoint (1) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: COMP 123
Hours: 18 lecture
Plan, create, modify and enhance effective presentations with graphics, slide masters, layout, design templates, color schemes, animation, diagrams and speaker’s notes; produce and deliver on-screen slide show.

COMP 113B — Advanced Microsoft PowerPoint (1.5) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: COMP 113A
Hours: 18 lecture
Expert features of Microsoft PowerPoint. Customize design templates, insert other presentations’ slides and templates, add graphics, sound and animation. Integrate with other programs and the Web. Import Word tables, add links to other slides/presentations, link Excel charts, summary slides, meeting notes, action items, workgroup collaboration, and produce presentation in MS Producer.

COMP 113Z — MS PowerPoint: New Features (.5) — CSU
Skills Advisories: Eligibility for ENG 103
Course Advisories: COMP 112 or 136A
Hours: 9 lecture
Covers the new features of the latest version of Microsoft PowerPoint. Recommended for current users who need to make the transition to the new version quickly.

COMP 114 — Introduction to Outlook (0.5) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: COMP 101 or 107
Hours: 9 lecture
Introduction to Microsoft Outlook. Includes scheduling using an electronic calendar, communicating with e-mail, and managing contacts through the tasks and notes features.
COMP 118—Visual Basic for Applications Programming
(4) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: CIS 101 and COMP 109 and 111
Hours: 72 lecture
Fundamental concepts of application development using Visual Basic for Applications (VBA).

COMP 120—Being Successful with Canvas
(1)
Skills Advisories: Eligibility for ENG 103
Hours: 18 lecture
Introduction to online tools used in Canvas. Topics include Canvas discussion boards and e-mail, uploading assignments, managing files, troubleshooting hardware/software/browser issues, and installing utilities, etc.

COMP 122—Introduction to Computers for Multimedia
(0.5) — CSU
Hours: 15 (6 lecture, 9 lab)
Introduction to college’s Digital Arts Center and basic skills and rules for its use. Series of workshops are provided to open applications, manage files, find help, and be aware of lab rules. Topics are dynamic and change to reflect Digital Arts Center hardware, software and policy.

COMP 123—Introduction to Microsoft Word
(1) — CSU
Skills Advisories: Eligibility for ENG 103
Course Advisories: COMP 151A
Hours: 54 lab
Use of essential Word features to create and format documents quickly: research papers in MLA or APA style, fliers and resumes. For general student use in any course.

COMP 124A—Microsoft Excel: Basic
(1) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: COMP 151A
Hours: 18 lecture
Short introduction to Excel basic features, including creating a worksheet, charts, formulas, functions and Web queries.

COMP 127A—Microsoft Project: Basic
(1) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: COMP 151A
Hours: 18 lecture
Short introduction to Microsoft Project basic features, including working with tasks, scheduling tasks, and managing resources and calendars.

COMP 129A—Searching the Web
(0.3)
Skills Advisories: Eligibility for ENG 103
Hours: 5.4 lecture
Introduction to searching and researching on the World Wide Web. Topics include surveys of popular search engines, search engine comparisons, search tips and techniques.

COMP 129B—Searching the Web
(0.5)
Skills Advisories: Eligibility for ENG 103
Hours: 9 lecture
Introduction to searching and researching on the World Wide Web. Topics include surveys of popular search engines, search engine comparisons, search tips and techniques.

COMP 132A—Word I
(0.5)
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: COMP 100 and 151A
Hours: 9 lecture
Introduction to Microsoft Word. Creating, saving, editing and formatting documents; auto-correct, auto-text, auto-format, move/copy, find/replace, indents, tabs, headers/footers, margins and page breaks.

COMP 132B—Word II
(0.5)
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: COMP 132A with minimum grade of “P” and 151A with minimum grade of “C”.
Hours: 9 lecture
Microsoft Word topics, including managing multiple-section documents, headers and footers; and Mail Merge.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Skills Advisories</th>
<th>Course Advisories</th>
<th>Hours</th>
<th>Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP 132C</td>
<td>Word III</td>
<td>0.5</td>
<td>Eligibility for ENG 110 or 110H</td>
<td></td>
<td>9 lecture</td>
<td>Microsoft Word topics, including managing document production with tables, styles and templates.</td>
</tr>
<tr>
<td>COMP 133A/CIS 133A</td>
<td>Visual Basic for Applications: Word</td>
<td>0.5</td>
<td>Eligibility for ENG 110 or 110H</td>
<td>COMP 132A and 151A</td>
<td>9 lecture</td>
<td>Automating Word applications, using Visual Basic for applications programming.</td>
</tr>
<tr>
<td>COMP 133B/CIS 133B</td>
<td>Visual Basic for Applications: Excel</td>
<td>0.5</td>
<td>Eligibility for ENG 110 or 110H</td>
<td>COMP 132C</td>
<td>9 lecture</td>
<td>Automating Excel applications, using Visual Basic for applications programming.</td>
</tr>
<tr>
<td>COMP 133C/CIS 133C</td>
<td>Visual Basic for Applications: Access</td>
<td>0.5</td>
<td>Eligibility for ENG 110 or 110H</td>
<td>COMP 134C</td>
<td>9 lecture</td>
<td>Automating Access applications, using Visual Basic for applications programming.</td>
</tr>
<tr>
<td>COMP 134A</td>
<td>Excel I</td>
<td>0.5</td>
<td>Eligibility for ENG 103</td>
<td>COMP 151A</td>
<td>9 lecture</td>
<td>Introduction to Microsoft Excel. Creating and managing a simple Excel file containing formatted text and numbers, as well as simple function formulas.</td>
</tr>
<tr>
<td>COMP 134B</td>
<td>Excel II</td>
<td>0.5</td>
<td>Eligibility for ENG 110 or 110H</td>
<td>COMP 134A and 151A</td>
<td>9 lecture</td>
<td>Microsoft Excel topics, including graphs and charts, working with large and multiple worksheets and workbooks; customizing Excel; documenting and auditing; and collaborating with a workgroup.</td>
</tr>
<tr>
<td>COMP 134C</td>
<td>Excel III</td>
<td>0.5</td>
<td>Eligibility for ENG 110 or 110H</td>
<td>COMP 134B</td>
<td>9 lecture</td>
<td>Advanced Excel topics, including defining advanced formulas, creating data tables, working with PivotTables, performing what-if analyses, recording macros, and publishing worksheets as Web pages.</td>
</tr>
<tr>
<td>COMP 135A</td>
<td>Access I</td>
<td>0.5</td>
<td>Eligibility for ENG 110 or 110H</td>
<td>COMP 151A</td>
<td>9 lecture</td>
<td>Creating a database, managing records, and creating queries and custom forms, with introduction to table relationships.</td>
</tr>
<tr>
<td>COMP 135B</td>
<td>Access II: Tables/Queries</td>
<td>0.5</td>
<td>Eligibility for ENG 110 or 110H</td>
<td>COMP 135A</td>
<td>9 lecture</td>
<td>Managing table relationships, data entry rules, data integrity and complex queries.</td>
</tr>
<tr>
<td>COMP 135C</td>
<td>Access III: Forms/Reports</td>
<td>0.5</td>
<td>Eligibility for ENG 110 or 110H</td>
<td>COMP 135B</td>
<td>9 lecture</td>
<td>Enhance forms and reports in Access with controls, graphics, headers/footers, combo boxes, calculations, sub-forms, sub-reports and charts. Create Pivot tables and Pivot charts.</td>
</tr>
</tbody>
</table>
COMP 135Z — MS Access: New Features (0.5) — CSU  
Skills Advisories: Eligibility for ENG 103  
Course Advisories: COMP 111 or 135A and 135C  
Hours: 9 lecture  
Covers the new features of the latest version of Microsoft Access. Recommended for current users who need to make the transition to the new version quickly.

COMP 136A — PowerPoint I (0.5)  
Skills Advisories: Eligibility for ENG 110 or 110H  
Course Advisories: COMP 100 and 151A  
Hours: 9 lecture  
Create and print basic slide presentations, with introduction to animation, clip art, drawing tools, tables and charts.

COMP 137A — Introduction to MS Publisher (0.5)  
Skills Advisories: Eligibility for ENG 103  
Course Advisories: COMP 151A  
Hours: 9 lecture  
Use Publisher to create letterhead, flyers and a newsletter. Work with shapes and WordArt, and convert material to a website.

COMP 137B/MAT 109 — Informational Graphics for the Web (0.5)  
Skills Advisories: Eligibility for ENG 110 or 110H  
Course Advisories: COMP 132B  
Hours: 9 lecture  
Overview of how to create and publish Web pages, using informational graphics, from existing office application files (MS Word, Excel, PowerPoint, etc.).

COMP 138A — Introduction to Visio (0.5)  
Skills Advisories: Eligibility for ENG 103  
Course Advisories: COMP 151A  
Hours: 9 lecture  
Learn basic techniques, create a basic flow diagram, organizational chart and custom stencils, and use cross-functional flowcharting.

COMP 139 — Social Networking for Business (0.5) — CSU  
Skills Advisories: Eligibility for ENG 103  
Hours: 9 lecture  
Social networking tools such as Facebook, Twitter, LinkedIn, blogs, Wikipedia and YouTube are being used by businesses worldwide. Learn how to use these tools effectively to promote, influence and sell. Learn best practices, dos and don’ts.

COMP 140 — ESL with the Internet (2)  
Course Advisories: ESL 42  
Hours: 36 lecture  
Introduction to use of the Internet and e-mail for students in ESL Levels 2 and 3 for English language development. Topics include sending e-mails, using online bulletin boards, searching the Internet, navigating a website, evaluating websites, and using English language-acquisition websites.

COMP 141 — Keyboarding for ESL Students (2)  
Course Advisories: ESL 62  
Hours: 36 lecture  
Introduction to computer keyboarding skills for students in ESL Levels 4 and 5. Emphasis on touch keyboarding of letter and number keys and the numeric keypad. After developing basic keyboarding skills, student creates a simple report and letter using Microsoft Word.

COMP 142 — Internet and E-mail for ESL (2)  
Course Advisories: ESL 62  
Hours: 72 (18 lecture, 54 lab)  
Introduction to the use of the Internet and electronic communication for students in ESL Levels 4 and 5. Topics include the World Wide Web, search engines, and e-mail features, such as sending and receiving attachments, filtering, and storing messages in folders; and blogs, messaging, etc.
COMP 143 — Using Your iPhone
(1) — CSU
Skills Advisories: Eligibility for ENG 103
Course Advisories: COMP 103
Hours: 18 lecture
Tap into the full potential of the iPhone for school, work and play by using the installed features, as well as the massive world of iPhone Apps.

COMP 144A — Google World
(1) — CSU
Skills Advisories: Eligibility for ENG 103
Course Advisories: COMP 103
Hours: 18 lecture
Students explore the newest applications in “Google World,” such as Google docs, forms, calendar, blogger, Wave, Reader and more. Can one really do everything online, free, with Google?

COMP 144B — Google World
(3) — CSU
Skills Advisories: Eligibility for ENG 103
Course Advisories: COMP 103
Hours: 54 lecture
Students explore and learn to use the newest applications in “Google World,” such as Google docs (documents, spreadsheets, presentations), forms, calendar, blogger, Wave, Reader and more. Can one really do everything online, free, with Google?

COMP 148A — Topics in Personal Productivity Technology Tools: Tablet PCs and MS OneNote
(0.5)
Skills Advisories: Eligibility for ENG 103
Course Advisories: COMP 100
Hours: 9 lecture
Learn to choose and use tablet PCs and MS One-Note to increase personal productivity.

COMP 148B — Topics in Personal Productivity Technology Tools: Handheld Computers
(0.5)
Skills Advisories: Eligibility for ENG 103
Course Advisories: COMP 100
Hours: 9 lecture
Learn to choose and use the latest hand-held computers to increase personal productivity.

COMP 148C — Topics in Personal Productivity Technology Tools: Podcasting and Digital Dictation
(0.5)
Skills Advisories: Eligibility for ENG 103
Course Advisories: COMP 100
Hours: 9 lecture
Learn to choose and use podcasting and digital dictation to increase personal productivity.

COMP 148D — Topics in Personal Productivity Technology Tools: Voice Recognition
(0.5)
Skills Advisories: Eligibility for ENG 103
Course Advisories: COMP 100
Hours: 9 lecture
Learn to choose and use voice recognition to increase personal productivity.

COMP 148E — Productivity Tools: Free/Open-Source/Web-Based
(0.5)
Skills Advisories: Eligibility for ENG 103
Course Advisories: COMP 100
Hours: 9 lecture
Learn to choose and use Productivity Freeware open-source software and web-based tools to increase personal productivity.

COMP 149/MAT 149 — Social Networking and Social Media
(3) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Through a variety of social networking applications, students learn about how the creation and use of media content help to establish network communities of shared professional and personal interests. Includes online applications Wikis, Youtube, Facebook, etc., and their use across media-oriented platforms.

COMP 150 — Voice Recognition
(1)
Skills Advisories: Eligibility for ENG 103
Course Advisories: COMP 123
Hours: 18 lecture
Learn to dictate directly to the computer using your voice. Achieve input speeds of over 100 words per minute. Train computer to recognize your voice. Edit and give commands using voice.
COMP 151A — Basic Computer Keyboarding  
(1.5) — CSU  
Skills Advisories: Eligibility for ENG 103  
Hours: 27 lecture  
Introduction to computer keyboarding skills that enable the student to work more effectively and quickly with a computer. Emphasis on touch keyboarding of alphabetic and numeric keys and symbols.

COMP 151AB — Beginning Computer Keyboarding  
(3) — CSU  
Skills Advisories: Eligibility for ENG 103  
Hours: 54 lecture  
Introduction to computer keyboarding skills that enable student to work more effectively and quickly. Emphasis on touch keyboarding of alpha and numeric keys. After developing basic keyboarding skills, student creates correspondence and reports using Microsoft Word.

Keyboarding Program Note: All Schedule of Classes “TBA” keyboarding courses are self-paced, individualized programs. Students may schedule TBA classes during the semester when the COMP Tutorial Lab is open.

COMP 153 — Review Computer Keyboarding  
(2) — CSU  
Skills Advisories: Eligibility for ENG 103  
Hours: 108 lab  
Review of basic keyboarding skills and computer principles, including techniques, alphabetic and number keys, plus correspondence, reports and tables in MS Word. Course assumes touch keyboarding skills.

COMP 155 — Keyboarding Skill Development I  
(1.5) — CSU  
Skills Advisories: Eligibility for ENG 110 or 110H  
Course Advisories: COMP 151A  
Hours: 81 lab  
For the student who already knows the computer keyboard by touch, this course provides skill development to build speed and accuracy.

COMP 156 — Keyboarding Skill Development II  
(1.5) — CSU  
Skills Advisories: Eligibility for ENG 110 or 110H  
Course Advisories: COMP 151A  
Hours: 81 lab  
For the student who already knows the computer keyboard by touch, this course provides continuing skill development to build speed and accuracy.

COMP 158 — Computer Keyboarding Skills  
(0.5)  
Skills Advisories: Eligibility for ENG 103  
Hours: 9 lecture  
Introduction to the computer keyboard to develop basic “touch” control keyboarding skills.

COMP 161ABC — Business Career Success  
(1.0 [A], 2.0 [B], 3.0 [C])  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 18-54 lecture  
Soft skills required for a successful business career. Includes understanding the business environment, preparing a job search, job-finding and job-keeping skills, managing online persona, team dynamics, business-social skills, communication and presentation skills.

COMP 163 — Receptionist Skills  
(1)  
Skills Advisories: Eligibility for ENG 103  
Hours: 18 lecture  
Preparation for employment as a receptionist/front office employee. Includes handling telephone and mail, presenting a professional image, using voice mail, fax machines, e-mail, copiers, etc.

COMP 170 — Introduction to Great Plains  
(0.5) — CSU  
Corequisites: ACCT 170  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 9 lecture  
Introduction to the basic features of MS Great Plains Dynamics computerized accounting application program.

COMP 171 — Business English  
(3) — CSU  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture  
Review of English fundamentals necessary to communicate effectively for personal and professional success: grammar, sentence structure, punctuation and word usage, with practical writing applications such as reviews and reports, and using digital technology to communicate with others.
COMP 185A — MS Word I, Version 2010 (0.5)
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: COMP 151A with a minimum grade of “C”.
Hours: 9 lecture
Introduction to Microsoft Word V. 2010. Creating and saving documents, basic document editing and formatting, and using proofing tools.

COMP 185B — MS Word II, Version 2010 (0.5)
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: COMP 185A with a minimum grade of “P” and COMP 151A with a minimum grade of “C”.
Hours: 9 lecture
Microsoft Word version 2010 topics, including managing multiple-section documents, headers and footers and mail merge.

COMP 185C — MS Word III, Version 2010 (0.5)
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: COMP 185A with a minimum grade of “P” and COMP 151A with a minimum grade of “C”.
Hours: 9 lecture
Microsoft Word version 2010 topics, including mail merge, forms, footnotes, endnotes, indices and bookmarks, and macros.

COMP 200 — Career Horticulture and Computers (1) — CSU
Course Advisories: COMP 101 and 103
Hours: 18 lecture
Career horticulture students and professionals learn the role of the computer and the Internet as tools to enhance professional success. Plant identification, soils, greenhouse operations, landscape construction, maintenance, integrated pest management, and irrigation. Professional use of digital cameras, scanners, GPS, etc.

COMP 202 — Integrating the MS Office Suite (1) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: COMP 103 and 107 and 109 and 113A - all with minimum grades of “C”.
Hours: 18 lecture
For intermediate to advanced users of MS Office, course focuses on the integrative and groupware features of the Office Suite. Includes sharing data between applications and collaborating with others, using Outlook, Office Binder, Excel, PowerPoint, word, online meetings.

COMP 203A — MS Excel I, Version 2010 (0.5)
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: COMP 100 and 151A with a minimum grade of “C”.
Hours: 9 lecture
Create and manage a simple Excel file containing formatted text and numbers, as well as simple function formulas.

COMP 203B — MS Excel II, Version 2010 (0.5)
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: COMP 203A and 151A with a minimum grade of “C”.
Hours: 9 lecture
Microsoft Excel version 2010 topics, including graphs and charts, large and multiple worksheets and workbooks; customizing Excel; documenting and auditing; and collaborating with a workgroup.

COMP 203C — MS Excel III, Version 2010 (0.5)
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: COMP 151A with a minimum grade of “C” and COMP 203B with a minimum grade of “P”.
Hours: 9 lecture
Advanced Excel topics, including defining advanced formulas, creating data tables, working with PivotTables, performing what-if analyses, recording macros, and publishing worksheets as Web pages.

COMP 211A-Z — Advanced Topics in Microsoft Word (0.3)
Skills Advisories: Eligibility for ENG 103
Course Advisories: COMP 132A
Hours: 5.4 lecture
Series of short one-day workshops covering a variety of advanced topics in Microsoft Word. Workshop topics are dynamic and change to reflect industry trends and new versions of an application.
COMP 211A — Word: Page Layout with Tables
(0.3)
Skills Advisories: Eligibility for ENG 103
Course Advisories: COMP 132A
Hours: 5.4 lecture
Learn powerful page layout techniques by harnessing Word’s built-in table creation tools—all easier than tabbing across the page. Create a variety of tables, adjust columns and row widths, align tables, split/merge cells/apply borders/shading.

COMP 211B — Mail Merge: Personalize Form Letters
(0.3)
Skills Advisories: Eligibility for ENG 103
Course Advisories: COMP 132A
Hours: 5.4 lecture
Complete holiday mailings more easily. Use MS Word mail merge tools to automate the process of document production for form letters. Manage mailing lists and labels.

COMP 211C — Long Documents: Styles, TOC, Page Setup
(0.3)
Skills Advisories: Eligibility for ENG 103
Course Advisories: COMP 132A
Hours: 5.4 lecture
Using Word to create a novel, family history, dissertation, thesis, operations manual, or a business or academic report in Word. Layout/structure features including styles, table of contents, outline view, page set-up, choosing fonts and controlling line, paragraph and page breaks.

COMP 211D — Long Documents: Advanced Graphics, Numbers, X-Refs
(0.3)
Skills Advisories: Eligibility for ENG 103
Course Advisories: COMP 132A
Hours: 5.4 lecture
Use Word features to build your novel, family history, dissertation, thesis, operations manuals, business/academic reports. Features include graphics, cross-references, foot/endnotes, section breaks, headers/footers, indexing, auto-numbering and inserting fields.

COMP 211E — Word Graphics
(0.3)
Skills Advisories: Eligibility for ENG 103
Course Advisories: COMP 132A
Hours: 5.4 lecture
Make the most of the graphics that can be added into Word documents: the Clip Art Organizer, WordArt and other graphic enhancements that are included in MS Office.

COMP 211F — Word Productivity Shortcuts
(0.3)
Skills Advisories: Eligibility for ENG 103
Course Advisories: COMP 132A
Hours: 5.4 lecture
Improve your Word skills and save time with tips, tricks, shortcuts. Effectively use tabs, indents, spell check, simple tables and headers/footers; and insert large chunks of text quickly.

COMP 212A-Z — Advanced Topics in Microsoft Excel
(0.3)
Skills Advisories: Eligibility for ENG 103
Course Advisories: COMP 134A
Hours: 5.4 lecture
Series of short one-day workshops covering a variety of advanced topics in Microsoft Excel. Workshop topics are dynamic and change to reflect industry trends and new versions of the application.

COMP 212A — Excel: Power Formulas and Functions
(0.3)
Skills Advisories: Eligibility for ENG 103
Course Advisories: COMP 134A
Hours: 5.4 lecture
Improve spreadsheets by making formulas easier to understand and by building commonly used financial functions. Produce everyday calculations and statistics more easily.
COMP 212B — Excel: Analyze with Charts and Graphs
(0.3)
Skills Advisories: Eligibility for ENG 103
Course Advisories: COMP 134A
Hours: 5.4 lecture
Make data easier to understand and summarize; and
spreadsheets professionally presentable; discovering
unexpected trends or patterns in information; and
using Excel charting/graphing tools to visually interpret
spreadsheet data.

COMP 230A — MS Access I, Version 2010
(0.5)
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: COMP 151A with a minimum grade
of “C”.
Hours: 9 lecture
Create a database, managing records, and creating
queries and custom forms, with introduction to table
relationships.

COMP 230B — Access II, Version 2010:
Tables/Queries
(0.5)
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: COMP 230A
Hours: 9 lecture
Create relational databases, working with related
tables, subforms, data integrity, advanced forms and
reports, advanced queries and charts.

COMP 230C — MS Access III, Version 2010: Forms/
Reports
(0.5)
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: COMP 230B
Hours: 9 lecture
Develop and access applications with advanced controls,
dialog boxes, macros, custom toolbars, menus and
shortcuts. Create custom switchboard, test application
performance, and establish basic database security.

COMP 271 — Business Communications
(3) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: COMP 171
Hours: 54 lecture
Develop excellent written and face-to-face
communication skills for business. Write effective
business documents, including letters, reports,
e-mails, resumes, messages. Learn strategies for
communicating in Internet/digital environment (blogs,
social networking, etc.).

COMP 290 — Work Experience in Computer
Applications and Office Management
(1-4) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 60-300 lab
Consists of supervised employment for students
whose career objectives, course of study and
employment complement each other. Students must
accomplish specific course objectives. Class meetings
on campus are scheduled each semester.

COMP 299 — Independent Study in Computer
Applications and Office Management
(1-4)
Limitation on Enrollment: Completion of a minimum of
12 units at SBCC, with a 2.5 GPA, and a minimum of
6 units, with a 3.0 GPA within the department.
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 48-192 lab
Student works under guidance and direction of
sponsoring faculty member on project consistent with
interests and abilities. Minimal weekly meetings with
faculty sponsor required. Course may be taken for
one to four units of credit; each unit of credit requires
student to devote approximately three hours per week
to the project.
Computer Information Systems

See “Computer Science” and “Computer Network Engineering and Electronics” sections for additional computer courses.

Degrees, Certificates and Awards

Associate in Science Degree:
- Computer Information Systems

Associate in Science Degree: Computer Information Systems—Emphasis in System Administration

Certificate of Achievement: PC Support and Network Management

Certificate of Achievement: Database Programming and Applications Development

Skills Competency Award: Help Desk and Desktop Support (Level I)

Skills Competency Award: Help Desk and Desktop Support (Level II)

Skills Competency Award: Web Server Administration

Skills Competency Award: Technical Writing

Skills Competency Award: Microsoft Office Development

Skills Competency Award: Microsoft Windows System Administration and Security

Skills Competency Award: Microsoft SQL Server Database Administration

Skills Competency Award: Information Technology Management

Skills Competency Award: Virtualization System Administration

Skills Competency Award: Mobile Device Administration

Skills Competency Award: Access SQL Professional

Skills Competency Award: Mac OS X Administration

Skills Competency Award: Cloud Computing Specialist

Program Description

Computer Information Systems (CIS) provides students with a broad background in the application of computers to the emerging needs of business and industry. CIS courses prepare students for entry-level positions in computer programming, systems analysis, computer operations and network management, information systems management, and sales and technical information positions.

Santa Barbara City College’s CIS Department offers comprehensive training in these program areas:

1. An occupational A.S. Degree, with a strong emphasis in both computer systems and business studies.

2. An occupational A.S. Degree, with a strong emphasis in system administration.

3. A transfer curriculum in preparation for a 4-year program in Management Information Systems (MIS) or CIS.

4. A Certificate program which provides marketable skills in PC hardware and software support, network management and systems administration.

5. A Certificate program which provides marketable skills in database programming and applications development.

6. A series of Skills Competency Awards in Help Desk and Desktop Support.

7. A Skills Competency Award in Web Server Administration.

8. A Skills Competency Award in Technical Writing.

9. A Skills Competency Award in Microsoft Office Development.

10. A Skills Competency Award in Microsoft Windows System Administration and Security.

11. A Skills Competency Award in Microsoft SQL Server Database Administration.

12. A Skills Competency Award in Information Technology Management.

13. A Skills Competency Award in Virtualization System Administration.

14. A Skills Competency Award in Mobile Device Administration.

15. A Skills Competency Award in Access SQL Professional.

16. A Skills Competency Award in Mac OS X Administration.

17. A Skills Competency Award in Cloud Computing Specialist

The CIS Department also provides introductory and microcomputer courses (electives) for students in programs campus-wide.
Program Student Learning Outcomes

AS Degree: Computer Information Systems
1. Describe the role of and explain the value of operating systems, databases, programming and project management in IT.
2. Participate on an IT project team as a programmer, database designer, or system administrator.

AS Degree: Computer Information Systems — Emphasis in System Administration
1. Describe the role of and explain the value of operating systems, network technologies and system administration in IT.
2. Participate on an IT team at multiple levels, from help desk specialist, to system administrator, to project leader on system implementation.
3. Select and implement appropriate operating system and network technologies for an organization or business enterprise.

Database Programming and Applications Development Certificate
1. Create programs that reflect the use of modular design and incorporate event-driven and object-oriented approaches.
2. Use database management systems to retrieve discrete and aggregate data from databases and to insert, update and delete discrete data.
3. Create and implement well-designed databases to reflect enterprise needs.
4. Develop business applications using well-structured programs, normalized databases and a multi-tier architecture.

Faculty and Offices
Jon Bek (BC-310, ext. 4216)
Esther Frankel (BC-216, ext. 2224)

Requirements for AS Degree: Computer Information Systems
The Associate Degree will be awarded upon completion of both department and college requirements.

Requirements for AS Degree: Computer Information Systems—Emphasis in System Administration
The Associate Degree will be awarded upon completion of both department and college requirements.

Department Offices
Division: Business
Esther Frankel, Chair (BC-216, ext. 2224)
Melissa Moreno, Dean (Wake Campus Rm. 1, ext. 8284)

Department Requirements (33-34 units)
CIS 101 — Introduction to Computers and Information Systems ........................................4
CIS 107 — Introduction to Database Systems .............................................................4
CIS/ENG 181 — Technical Writing .................................................................................3
CIS/COMP 118 — Visual Basic for Applications Programming or ..........................................4
CIS 119 — Intro to Programming Using Visual Basic .............................................4
CIS 201 — UNIX/Linux System Administration or
CIS 206 — MS Windows Server System Administration ........................................4
CIS 218 — MS Windows Desktop System Admin ..................................................4
+CIS 243 — Systems Analysis and Design ..............................................................4
CIS 245 — IT Project Management or
CIS 246 — Management of Information Technology .............................................3
CNEE 110 — Networking Essentials .................................................................3-4
+Students who completed CIS 240 are not required to complete CIS 243.

Recommended Sequence: First semester: CIS 101, CIS 218; second semester: CNEE 110, CIS 107; third semester: CIS 181/ENG 181, CIS 118/COMP 118 or CIS 119, CIS 201 or CIS 206; fourth semester: CIS 243+, CIS 245 or CIS 246

Optional
CIS 290 — Work Experience in Comp Info Systems ..............................................1-4

Department Requirements (30 units)
CIS 101 — Introduction to Computers and Information Systems ........................................4
CIS 114 — Virtualization Concepts ........................................................................2
CIS/ENG 181 — Technical Writing ............................................. 3
CIS 200 — Windows PowerShell ............................................... 2
CIS 201 — UNIX/Linux System Administration or
    CIS 206 — MS Windows Server System Administration .. 4
    CIS 218 — MS Windows Desktop System Administration ... 4
    CIS 245 — IT Project Management .................................. 4
CNEE 110 — Networking Essentials ................................... 3
COMP 101 — Introduction to Computer Applications ........... 4

Recommended Sequence: First semester: CIS 101, COMP 101; second semester: CIS 114, 218, CNEE 110; third semester: CIS 200, 201 or 219 or 228, CNEE 110, 112.

Certificate of Achievement Requirements: Complete all department requirements for the certificate with a cumulative GPA of 2.0 or better. Candidates for a Certificate of Achievement are required to complete at least 20% of the department requirements through SBCC.

Certificate of Achievement: Database Programming and Applications Development

Department Requirements (22-25 units)

CIS 101 — Introduction to Computers and Info Systems.......... 4
CIS 107 — Introduction to SQL ........................................... 4
CIS 118 — Visual Basic: Applications Programming or .......... 4
    COMP 118 — Visual Basic for Applications Programming or ... 4
CIS 119 — Introduction to Programming: Visual Basic ......... 4
    COMP 111 — Microsoft Access .................................... 4

Two courses from the following list:

CIS 231 — SQL Server Design and Programming or ............ 3
CIS 234 — Oracle Design and Programming or .................. 4
CIS 252 — MySQL Design and Programming ..................... 3

Plus six units from the following:

CIS 120 — Introduction to NoSQL Databases 3
CIS 232 — SQL Server Database Administration ................. 3
CIS 235 — Oracle PL/SQL Programming ............................ 4
CIS 236 — Oracle Database Administration ....................... 3
CIS 237 — Advanced SQL Programming ............................ 2
CIS 238 — Data Warehousing with SQL Server .................. 3
CIS 239 — Crystal Reports .............................................. 2
CIS 251 — Advanced SQL Server Programming .................. 4
CIS 253 — Business Intelligence with MS SQL Server ........... 4

College Requirements

For complete information, see “Graduation Requirements” in the Catalog Index.

Certificate of Achievement: PC Support and Network Management

This Certificate program provides training in preparation for immediate employment in a variety of information systems positions in business, government and industrial settings. It provides skills needed for career entry and/or advancement in such positions as business applications specialist, PC network support technician and information systems/database specialist.

Department Requirements (36-37 units)

CIS 101 — Introduction to Computers and Information Systems ............................................. 4
CIS 111 — Computer User Support ....................................... 2
CIS 112 — Help Desk Concepts ......................................... 2
CIS 114 — Virtualization Concepts or
    CIS 115 — Cloud Computing Essentials ........................ 2
    CIS 200 — Windows PowerShell .................................... 2
CIS 201 — UNIX/Linux System Administration or
    CIS 219 — VMware vSphere System Administration or
    CIS 228 — Mac OS X System Administration ................. 3-4
    CIS 206 — MS Windows Server System Administration ... 4
    CIS 218 — MS Windows Desktop System Administration ... 4
CNEE 102 — Fundamentals of PC Support ........................... 3
CNEE 110 — Networking Essentials ................................... 3

COMP 101 — Introduction to Computer Applications ........... 4

Optional:
CIS 290 — Work Experience in Comp Info Systems ........... 1-4

Recommended Sequence: First semester: CIS 101, COMP 101; second semester: CIS 112, 114 or 115, 206, CNEE 102; third semester: CIS 200, 201 or 219 or 228, CNEE 110, 112.

Certificate of Achievement: Advanced Computer Support: A+ Practical Applications ............................................. 3

College Requirements

For complete information, see “Graduation Requirements” in the Catalog Index.

Department Requirements (36-37 units)

CIS 101 — Introduction to Computers and Information Systems ............................................. 4
CIS 111 — Computer User Support ....................................... 2
CIS 112 — Help Desk Concepts ......................................... 2
CIS 114 — Virtualization Concepts or
    CIS 115 — Cloud Computing Essentials ........................ 2
    CIS 200 — Windows PowerShell .................................... 2
CIS 201 — UNIX/Linux System Administration or
    CIS 219 — VMware vSphere System Administration or
    CIS 228 — Mac OS X System Administration ................. 3-4
    CIS 206 — MS Windows Server System Administration ... 4
    CIS 218 — MS Windows Desktop System Administration ... 4
CNEE 102 — Fundamentals of PC Support ........................... 3
CNEE 110 — Networking Essentials ................................... 3

Recommended Sequence: First semester: CIS 101, COMP 101; second semester: CIS 114, 218, CNEE 110; third semester: CIS 200, 201 or 219 or 228, CNEE 110, 112.

Certificate of Achievement Requirements: Complete all department requirements for the certificate with a cumulative GPA of 2.0 or better. Candidates for a Certificate of Achievement are required to complete at least 20% of the department requirements through SBCC.

Certificate of Achievement: Database Programming and Applications Development

Department Requirements (22-25 units)

CIS 101 — Introduction to Computers and Info Systems.......... 4
CIS 107 — Introduction to SQL ........................................... 4
CIS 118 — Visual Basic: Applications Programming or .......... 4
    COMP 118 — Visual Basic for Applications Programming or ... 4
CIS 119 — Introduction to Programming: Visual Basic ......... 4
    COMP 111 — Microsoft Access .................................... 4

Two courses from the following list:

CIS 231 — SQL Server Design and Programming or ............ 3
CIS 234 — Oracle Design and Programming or .................. 4
CIS 252 — MySQL Design and Programming ..................... 3

Plus six units from the following:

CIS 120 — Introduction to NoSQL Databases 3
CIS 232 — SQL Server Database Administration ................. 3
CIS 235 — Oracle PL/SQL Programming ............................ 4
CIS 236 — Oracle Database Administration ....................... 3
CIS 237 — Advanced SQL Programming ............................ 2
CIS 238 — Data Warehousing with SQL Server .................. 3
CIS 239 — Crystal Reports .............................................. 2
CIS 251 — Advanced SQL Server Programming .................. 4
CIS 253 — Business Intelligence with MS SQL Server ........... 4

College Requirements

For complete information, see “Graduation Requirements” in the Catalog Index.

Department Requirements (36-37 units)

CIS 101 — Introduction to Computers and Information Systems ............................................. 4
CIS 111 — Computer User Support ....................................... 2
CIS 112 — Help Desk Concepts ......................................... 2
CIS 114 — Virtualization Concepts or
    CIS 115 — Cloud Computing Essentials ........................ 2
    CIS 200 — Windows PowerShell .................................... 2
CIS 201 — UNIX/Linux System Administration or
    CIS 219 — VMware vSphere System Administration or
    CIS 228 — Mac OS X System Administration ................. 3-4
    CIS 206 — MS Windows Server System Administration ... 4
    CIS 218 — MS Windows Desktop System Administration ... 4
CNEE 102 — Fundamentals of PC Support ........................... 3
CNEE 110 — Networking Essentials ................................... 3

COMP 101 — Introduction to Computer Applications ........... 4

Optional:
CIS 290 — Work Experience in Comp Info Systems ........... 1-4

Recommended Sequence: First semester: CIS 101, COMP 101; second semester: CIS 114, 218, COMP 101; second semester: CIS 112, 114 or 115, 206, CNEE 102; third semester: CIS 200, 201 or 219 or 228, CNEE 110, 112.

Certificate of Achievement Requirements: Complete all department requirements for the certificate with a cumulative GPA of 2.0 or better. Candidates for a Certificate of Achievement are required to complete at least 20% of the department requirements through SBCC.

Certificate of Achievement: Database Programming and Applications Development

Department Requirements (22-25 units)

CIS 101 — Introduction to Computers and Info Systems.......... 4
CIS 107 — Introduction to SQL ........................................... 4
CIS 118 — Visual Basic: Applications Programming or .......... 4
    COMP 118 — Visual Basic for Applications Programming or ... 4
CIS 119 — Introduction to Programming: Visual Basic ......... 4
    COMP 111 — Microsoft Access .................................... 4

Two courses from the following list:

CIS 231 — SQL Server Design and Programming or ............ 3
CIS 234 — Oracle Design and Programming or .................. 4
CIS 252 — MySQL Design and Programming ..................... 3

Plus six units from the following:

CIS 120 — Introduction to NoSQL Databases 3
CIS 232 — SQL Server Database Administration ................. 3
CIS 235 — Oracle PL/SQL Programming ............................ 4
CIS 236 — Oracle Database Administration ....................... 3
CIS 237 — Advanced SQL Programming ............................ 2
CIS 238 — Data Warehousing with SQL Server .................. 3
CIS 239 — Crystal Reports .............................................. 2
CIS 251 — Advanced SQL Server Programming .................. 4
CIS 253 — Business Intelligence with MS SQL Server ........... 4
Certificate of Achievement Requirements: Complete all department requirements for the certificate with a cumulative GPA of 2.0 or better. Candidates for a Certificate of Achievement are required to complete at least 20% of the department requirements through SBCC.

Skills Competency Award: Help Desk and Desktop Support (Level 1)
Department Requirements (12 units)
CIS 101 — Intro to Computers and Info. Systems ............4
CIS 111 — Computer User Support ................................2
CIS 112 — Help Desk Concepts ..................................2
COMP 101 — Introduction to Computer Applications ........4
Students must complete the above courses with a grade of “C” or higher or credit in all courses. Candidates for a Skills Competency Award are required to complete at least 20% of the department requirements through SBCC.

Skills Competency Award: Help Desk and Desktop Support (Level 2)
Department Requirements (12 units)
CIS 114 — Virtualization Concepts ...............................2
CIS 218 — MS Windows Desktop System Administration ....4
CNEE 102 — Fundamentals of PC Support .....................3
CNEE 112 — Advanced Computer Support:
   A+ Practical Applications ......................................3
Students must complete the above courses with a grade of “C” or higher or credit in all courses. Candidates for a Skills Competency Award are required to complete at least 20% of the department requirements through SBCC.

Skills Competency Award: Access SQL Professional
Department Requirements (10 units)
CIS 101 — Intro to Computers and Info. Systems ............4
CIS 117 — Introduction to SQL ...................................2
COMP 111 — Microsoft Access ....................................4
Students must complete the above courses with a grade of “C” or higher or credit in all courses. Candidates for a Skills Competency Award are required to complete at least 20% of the department requirements through SBCC.

Skills Competency Award: Web Server Administration
Department Requirements (16 units)
CIS 201 — UNIX/LINUX System Administration ..............4
CIS 206 — MS Windows Server System Administration ....4
CIS 224 — Apache Web Server Administration ...............2
CNEE 110 — Networking Essentials ............................3
CS 111 — HTML and Webmastering ...........................3
Students must complete the above courses with a grade of “C” or higher or credit in all courses. Candidates for a Skills Competency Award are required to complete at least 20% of the department requirements through SBCC.

Skills Competency Award: Technical Writing
Department Requirements (10 units)
CIS 101 — Introduction to Computers and Information Systems ..................................................4
CIS 181/ENG 181 — Tech. and Professional Writing .......3
GDP 111 — Graphic Design Basics .............................3
Students must complete the above courses with a grade of “C” or higher or credit in all courses. Candidates for a Skills Competency Award are required to complete at least 20% of the department requirements through SBCC.

Skills Competency Award: Microsoft Office Development
Department Requirements (16 units)
CIS 101 — Introduction to Computers and Information Systems ..................................................4
CIS 118/COMP 118 — Visual Basic for Applications Programming .........................................................4
COMP 109 — Microsoft Excel ....................................4
COMP 111 — Microsoft Access ..................................4
Students must complete the above courses with a grade of “C” or higher or credit in all courses. Candidates for a Skills Competency Award are required to complete at least 20% of the department requirements through SBCC.
Skills Competency Award: Microsoft Windows System Administration and Security

Department Requirements (15 units)

CIS 206 — MS Windows Server System Administration ........ 4
CIS 218 — MS Windows Desktop System Administration .... 4
CIS 221 — MS Windows Server Enterprise Administration .. 4
CNEE 206 — MS Windows Network Infrastructure ............. 3

Students must complete the above courses with a grade of “C” or higher or credit in all courses. Candidates for a Skills Competency Award are required to complete at least 20% of the department requirements through SBCC.

Skills Competency Award: Microsoft SQL Server Database Administration

Department Requirements (10 units)

CIS 206 — MS Windows Server System Administration ....... 4
CIS 231 — SQL Server Design and Programming ............ 3
CIS 232 — SQL Server Database Administration ............. 3

Students must complete the above courses with the grade of “C” or higher or pass in all courses. Candidates for a Skills Competency Award are required to complete at least 20% of the department requirements through SBCC.

Skills Competency Award: Information Technology Management

Department Requirements (13 units)

BUS 101 — Introduction to Business or
MGMT 102 — Leadership in Organizations .................. 3
CIS 245 — Information Technology Project Management .... 4
CIS 246 — Management of Information Technology ........ 3
MGMT 101 — Introduction to Management ................... 3

Students must complete the above courses with a grade of “C” or higher or credit in all courses. Candidates for a Skills Competency Award are required to complete at least 20% of the department requirements through SBCC.

Skills Competency Award: Virtualization System Administration

Department Requirements (17 units)

CIS 114 — Virtualization Concepts .................................. 2
CIS 201 — UNIX/Linux System Administration or
  CIS 206 — MS Windows Server System Administration ........... 4
CIS 219 — VMware vSphere System Administration or
  CIS 222 — MS Private Cloud Administration .................. 3
CIS 225 — Citrix XenApp Administration or
  CIS 226 — Citrix XenDesktop Administration or
  CIS 262 — VMware Desktop Virtualization Administration ............ 3
CNEE 125 — CCNA I: Intro to Networking and Routers ...... 5

Students must complete the above courses with the grade of “C” or higher or pass in all courses. Candidates for a Skills Competency Award are required to complete at least 20% of the department requirements through SBCC.

Skills Competency Award: Mobile Device Administration

Department Requirements (14 units)

CIS 206 — MS Windows Server System Administration ....... 4
CIS 213 — MS Exchange Server Administration ............... 3
CIS 217 — BlackBerry Enterprise Server System Admin or
CIS 263 — MS System Center Configuration Manager Admin ............ 3
CIS 218 — MS Windows Desktop System Administration ... 4

Students must complete the above courses with a grade of “C” or higher or credit in all courses. Candidates for a Skills Competency Award are required to complete at least 20% of the department requirements through SBCC.

Skills Competency Award: Mac OS X Administration

Department Requirements (12 units)

CIS 101 — Intro to Computers and Info. Systems ............ 4
CIS 111 — Computer User Support ............................... 2
CIS 112 — Help Desk Concepts .................................. 2
CIS 228 — Mac OS X System Administration ................. 4
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Students must complete the above courses with a grade of “C” or higher or credit in all courses. Candidates for a Skills Competency Award are required to complete at least 20% of the department requirements through SBCC.

Skills Competency Award:
Cloud Computing Specialist

Department Requirements (13 units)

CIS 114 — Virtualization Concepts ........................................ 2
CIS 115 — Cloud Computing Essentials ................................. 2
CIS 116 — Cloud Implementation ........................................... 2
CIS 201 — UNIX/Linux System Administration or .................. 4
    CIS 206 — MS Windows Server System Administration .. 4
CNEE 110 — Networking Essentials ...................................... 3

Students must complete the above courses with a grade of “C” or higher or credit in all courses. Candidates for a Skills Competency Award are required to complete at least 20% of the department requirements through SBCC.

Planning a Program of Study
Students are advised to see a college counselor and a departmental instructor in planning a program of study. Factors to be considered in the plan . . .

1. Academic goals (i.e., occupational degree, transfer, or certificate programs).
2. Career and occupational goals (i.e., programmer, operations analyst, technical support, sales).

Program Cost and Outcome
For planning purposes, the webpages to follow provide information on the cost of attendance, program length (assuming a student attends full-time), financing options and historical student completion rates:

Database Programming and Applications Development
www.sbcc.edu/financialaid/gainfulemployment/
Database%20Programming%20and%20Applications%20Development.htm

PC Support/Network Management
www.sbcc.edu/financialaid/gainfulemployment/PC%20SupportNetwork%20Management.htm

Computer Information Systems Courses

CIS 101 — Introduction to Computers and Information Systems
(4) — CSU, UC*
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: CIS 101
Hours: 72 lecture
Introduction to the role of computer information systems within modern organizations. Topics include hardware and software functions, programming, systems development and networks. Students use computers for programming, as well as popular microcomputer applications such as word processing, spreadsheets and database management. (*UC Transfer Limit: CIS 101 combined with CS 101: maximum credit, one course)

CIS 107 — Introduction to Database Systems
(4) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: CIS 101
Hours: 72 lecture
Introduction to relational database management concepts. Includes database creation, manipulation, modification and reporting; queries using SQL and Query-by-Example (QBE); and database design and normalization.

CIS 111 — Computer User Support
(2) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: CIS 101
Hours: 36 lecture
Computer user support methodologies; focus on understanding interpersonal skills required for user support.

CIS 112 — Help Desk Concepts
(2) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: CIS 101
Hours: 36 lecture
Introduction to computer help desk methodologies, using the ITIL framework.
CIS 114 — Virtualization Concepts  
(2) — CSU, UC  
**Skills Advisories:** Eligibility for ENG 110 or 110H  
**Course Advisories:** CIS 218  
**Hours:** 36 lecture

Introduction to virtualization concepts, with an overview of virtualization products. Creation, configuration and management of virtual machines. Provides occupational preparation for information systems professionals, such as PC support personnel, computer programmers, network/systems managers and related technical and operations-administration personnel.

CIS 115 — Cloud Computing Essentials  
(2) — CSU  
**Skills Advisories:** Eligibility for ENG 110 or 110H  
**Course Advisories:** CIS 112 and 101  
**Hours:** 36 lecture

Introduction to cloud computing. Implementation, management, security and privacy issues associated with cloud computing. Provides occupational preparation for information systems professionals, such as PC support personnel, computer programmers, network/systems managers and related technical and operations administration personnel.

CIS 116 — Cloud Implementation  
(2) — CSU  
**Skills Advisories:** Eligibility for ENG 110 or 110H  
**Course Advisories:** CIS 114, 115  
**Hours:** 36 lecture

Implementing cloud services in the enterprise. Provides occupational preparation for information systems professionals such as PC support personnel, computer programmers, network/system managers and related technical and operations administration personnel.

CIS 117 — Introduction to SQL Programming  
(2) — CSU  
**Skills Advisories:** Eligibility for ENG 110 or 110H  
**Course Advisories:** CIS 101  
**Hours:** 36 lecture

Using SQL to retrieve, insert, update and delete information from relational databases. Creating row and aggregate functions, inner and outer joins, set operations, subqueries and parameter queries.

CIS 118/COMP 118 — Visual Basic for Applications Programming  
(4) — CSU  
**Skills Advisories:** Eligibility for ENG 110 or 110H  
**Course Advisories:** CIS 101 and COMP 109 and 111  
**Hours:** 72 lecture

Fundamental concepts of application development using Visual Basic for Applications (VBA).

CIS 119 — Introduction to Programming Using Visual Basic  
(4) — CSU  
**Skills Advisories:** Eligibility for ENG 110 or 110H  
**Course Advisories:** CIS 101  
**Hours:** 72 lecture

Fundamental programming concepts and application development for students new to programming. Covers flowcharting and pseudocode; algorithms and program structure; control structures; objects, events and variables; modular design, sub-programs and functions; and file processing.

CIS 120 — Introduction to NoSQL Databases  
(2) — CSU  
**Skills Advisories:** Eligibility for ENG 110 or 110H  
**Course Advisories:** CIS 107 or CIS 117  
**Hours:** 36 lecture

Introduction to NoSQL databases. Fundamentals of NoSQL databases and survey of NoSQL products.

CIS 133A/COMP 133A — Visual Basic for Applications: Word  
(0.5)  
**Skills Advisories:** Eligibility for ENG 110 or 110H  
**Course Advisories:** COMP 132C  
**Hours:** 9 lecture

Automating Word applications, using Visual Basic for applications programming.

CIS 133B/COMP 133B — Visual Basic for Applications: Excel  
(0.5)  
**Skills Advisories:** Eligibility for ENG 110 or 110H  
**Course Advisories:** COMP 134C  
**Hours:** 9 lecture

Automating Excel applications, using Visual Basic for applications programming.
CIS 133C/COMP 133C — Visual Basic for Applications: Access
(0.5)
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: COMP 135C
Hours: 9 lecture
Automating Access applications, using Visual Basic for applications programming.

CIS 181/ENG 181 — Technical and Professional Writing
(3) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Writing course designed to teach professional-level written communication in technical fields.

CIS 200 — Windows PowerShell
(2) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: CIS 218
Hours: 36 lecture
Automating system administration functions in Windows, using Windows PowerShell.

CIS 201 — UNIX/Linux System Administration
(4) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: CIS 218 or CS 130
Hours: 72 lecture
Introduction to UNIX and Linux system administration. Occupational preparation for PC-support personnel, programmers and network systems managers.

CIS 206 — MS Windows Server System Administration
(4) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: CIS 218
Hours: 72 lecture
Introduction to Microsoft Windows Server, with emphasis on system administration. Provides occupational preparation for information systems professionals, such as PC-support personnel, computer programmers, network/systems managers, and related technical and operations administration personnel.

CIS 209 — Visual Basic.NET Programming
(4) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: CIS 119
Hours: 72 lecture
Windows programming, using Visual Basic.NET forms, controls, menus, procedures, arrays and error-handling techniques. Accessing files and databases. Designed for students familiar with programming concepts, but little or no experience with Visual Basic.NET.

CIS 213 — MS Exchange Server Administration
(3) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: CIS 206
Hours: 54 lecture
Introduction to Microsoft Exchange Server, with emphasis on system administration. Provides occupational preparation for information systems professionals, such as PC-support personnel, computer programmers, network/systems managers, and related technical and operations/administration personnel.

CIS 217 — BlackBerry Enterprise Server System Administration
(3) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: CIS 213
Hours: 54 lecture
Introduction to BlackBerry Enterprise Server system administration. Provides occupational preparation for information systems professionals, such as PC-support personnel, network/systems managers and related technical operations/administration personnel.

CIS 218 — MS Windows Desktop System Administration
(4) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: CIS 101
Hours: 72 lecture
Introduction to Microsoft Windows desktop system administration. Provides occupational preparation for information systems professionals, such as PC-support personnel, computer programmers, network/systems managers and related technical and operations/administration personnel.
CIS 219 — VMware vSphere System Administration
(3) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: CIS 114 and either 201 or 206
Hours: 54 lecture
Introduction to VMware vSphere system administration. Provides occupational preparation for information systems professionals, such as PC-support personnel, computer programmers, network/systems managers and related technical and operations administration personnel.

CIS 220/MKT 220 — Introduction to Electronic Commerce
(3) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: BUS 101 and COMP 103
Hours: 54 lecture
Survey of electronic commerce and the use of the Internet to conduct business. Introduces such major components as marketing, communications, cyberlaw, operations and technical issues. Includes an interdisciplinary exploration of the issues, trends, opportunities and technologies which shape electronic commerce.

CIS 221 — MS Windows Server Enterprise System Administration
(4) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: CIS 206
Hours: 72 lecture
Introduction to Microsoft Windows Server, with emphasis on enterprise system administration. Provides occupational preparation for information systems professionals, such as PC-support personnel, computer programmers, network/systems managers, and related technical and operation administration personnel.

CIS 222 — MS Private Cloud Administration
(3) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: CIS 114 and 206
Hours: 54 lecture
Introduction to configuration and administration of a Microsoft private cloud. Provides occupational preparation for information systems professionals, such as PC-support personnel, computer programmers, network/systems managers, and technical and operations administration personnel.

CIS 223 — MS Sharepoint Server Administration
(3) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: CIS 206
Hours: 54 lecture
Introduction to Microsoft Sharepoint Server, with emphasis on system administration. Provides occupational preparation for information systems professionals, such as PC-support personnel, computer programmers, network/systems managers, and technical and operations administration personnel.

CIS 224 — Apache Web Server Administration
(2) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: CIS 201 or 206
Hours: 36 lecture
Installing, configuring and trouble-shooting Apache Web Server on multi-platform environments.

CIS 225 — Citrix XenApp Administration
(3) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: CIS 114 and 206
Hours: 54 lecture
Introduction to Citrix XenApp administration. Provides occupational preparation for information systems professionals, such as PC-support personnel, computer programmers, network/systems managers and related technical and operations administration personnel.

CIS 226 — Citrix XenDesktop Administration
(3) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: CIS 114 and 206
Hours: 54 lecture
Introduction to Citrix XenDesktop administration. Provides occupational preparation for information systems professionals, such as PC-support personnel, computer programmers, network/systems managers and related technical and operations administration personnel.

CIS 228 — Mac OS X System Administration
(4) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: CIS 101
Hours: 72 lecture
Introduction to Mac OS X desktop and server administration. Provides occupational preparation for information systems professionals, such as PC-support personnel, network/systems managers, and related technical and operations administration personnel.

**CIS 229 — Advanced Visual Basic.NET Programming (4) — CSU**  
**Skills Advisories:** Eligibility for ENG 110 or 110H  
**Course Advisories:** CIS 209  
**Hours:** 72 lecture

Developing and distributing advanced Visual Basic.NET applications. Designed for individuals with experience in Visual Basic programming.

**CIS 230 — Active Server Pages Using Visual Basic (4) — CSU**  
**Skills Advisories:** Eligibility for ENG 110 or 110H  
**Course Advisories:** CIS 117 or 107 and 119  
**Hours:** 72 lecture

Developing Internet and intranet business applications with Active Server Pages and Visual Basic. Accessing databases, managing enterprise data, implementing transaction processing, electronic commerce and Internet mail.

**CIS 231 — SQL Server Design and Programming (3) — CSU**  
**Skills Advisories:** Eligibility for ENG 110 or 110H  
**Course Advisories:** CIS 117 or 107 and 119  
**Hours:** 54 lecture

Designing and implementing SQL Server databases. Programming in Transact-SQL. Designed for students and professionals seeking Microsoft certification.

**CIS 232 — SQL Server Database Administration (3) — CSU**  
**Skills Advisories:** Eligibility for ENG 110 or 110H  
**Course Advisories:** CIS 206 and 231  
**Hours:** 54 lecture

Administering, backing up and recovering SQL Server databases. Designed for students and professionals seeking Microsoft certification.

**CIS 234 — Oracle Design and Programming (4) — CSU**  
**Skills Advisories:** Eligibility for ENG 110 or 110H  
**Course Advisories:** CIS 117 or 107  
**Hours:** 72 lecture

Programming in SQL and creating basic PL/SQL procedures. Designed for students and professionals seeking Oracle certification.

**CIS 235 — Oracle PL/SQL Programming (4) — CSU**  
**Skills Advisories:** Eligibility for ENG 110 or 110H  
**Course Advisories:** CIS 234  
**Hours:** 72 lecture

Programming PL/SQL procedures, functions, triggers, packages and object types in Oracle’s SQL *Plus and Procedure Builder environments. Designed for students and professionals seeking Oracle certification.

**CIS 236 — Oracle Database Administration (3) — CSU**  
**Skills Advisories:** Eligibility for ENG 110 or 110H  
**Course Advisories:** CIS 234 and 201 or 206  
**Hours:** 54 lecture

Administering, backing up and recovering Oracle databases. Designed for students and professionals seeking Oracle certification.

**CIS 237 — Advanced SQL Programming (2) — CSU**  
**Skills Advisories:** Eligibility for ENG 110 or 110H  
**Course Advisories:** CIS 107 or 117  
**Hours:** 36 lecture

Using SQL to clean and consolidate data; perform correlated subqueries and hierarchical retrievals; write SQL queries; and access object-relational data, VARRAYs and nested tables.

**CIS 238 — Data Warehousing with SQL Server (3) — CSU**  
**Skills Advisories:** Eligibility for ENG 110 or 110H  
**Course Advisories:** CIS 107 or 117  
**Hours:** 54 lecture

Using Microsoft SQL Server to create data warehouses and analyze warehoused data.

**CIS 243 — Systems Analysis and Design (4) — CSU**  
**Skills Advisories:** Eligibility for ENG 110 or 110H  
**Course Advisories:** CIS 101  
**Hours:** 72 lecture

Analyzing and designing information systems. Information gathering, cost-benefit analysis, systems modeling techniques and prototyping.
CIS 244 — UML for Business Processes
(2) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: CIS 107
Hours: 36 lecture
Using Unified Modeling Language (UML) for systems analysis and design.

CIS 245 — IT Project Management
(4) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: CIS 101
Hours: 72 lecture
Introduction to information technology project management.

CIS 246 — Management of Information Technology
(3) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: CIS 101
Hours: 54 lecture
Introduction to the management of information technology.

CIS 251 — Advanced SQL Server Programming
(4) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: CIS 231
Hours: 72 lecture
SQL Server programming, using advanced features of Transact-SQL. Coding functions, procedures and triggers, using Common Language Runtime integration.

CIS 252 — MySQL Design and Programming
(3) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: CIS 107 or 117
Hours: 54 lecture
Programming in SQL and creating basic procedures and functions in MySQL. Designed for students and professionals seeking MySQL certification.

CIS 253 — Business Intelligence with Microsoft SQL Server
(4) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: CIS 238
Hours: 72 lecture
Implementing and designing business intelligence solutions with Microsoft SQL Server. Provides occupational preparation for information systems professionals, such as PC-support personnel, computer programmers, network/systems managers, and related technical and operations administration personnel.

CIS 254 — Business Intelligence with Microsoft SQL Server
(3) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: CIS 238
Hours: 54 lecture
Implementing and designing business intelligence solutions with Microsoft SQL Server. Provides occupational preparation for information systems professionals, such as PC-support personnel, computer programmers, network/systems managers, and related technical and operations administration personnel.

CIS 255 — Business Intelligence with Microsoft SQL Server
(3) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: CIS 238
Hours: 54 lecture
Implementing and designing business intelligence solutions with Microsoft SQL Server. Provides occupational preparation for information systems professionals, such as PC-support personnel, computer programmers, network/systems managers, and related technical and operations administration personnel.

CIS 262 — VMware Desktop Virtualization Administration
(3) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: CIS 219 and 206
Hours: 54 lecture
Virtual desktop administration using VMware Horizon View. Provides occupational preparation for information systems professionals, such as PC-support personnel, computer programmers, network/systems managers, and related technical and operations administration personnel.

CIS 263 — MS System Center Configuration Manager Administration
(3) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: CIS 206
Hours: 54 lecture
Administering and deploying Microsoft System Center Configuration Manager. Provides occupational preparation for information systems professionals, such as PC-support personnel, computer programmers, network/systems managers, and related technical and operations administration personnel.

CIS 290 — Work Experience in Computer Information Systems
(1-4) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
75 hours of work experience = 1 unit of credit
Hours: 60-300 lab
Consists of supervised employment for students whose career objectives, course of study and employment complement each other. Students must accomplish specific course objectives. Class meetings on campus are scheduled each semester.
Computer Network Engineering

Degrees, Certificates and Awards
Associate in Science: Computer Network Engineering
Certificate of Achievement:
  Computer Network Engineering
Skills Competency Award: Cisco Networking Associate

Program Description
The field of computer-related technologies continues to evolve at an astounding pace. Fortunately, the Department of Computer Network Engineering provides direct access to the wide variety of exciting careers in this field. The department not only offers programs which meet the general needs of the industry, but also provides several unique specialty programs. Most programs may be completed for a highly specific technical Certificate, or taken along with General Education courses for the broader AS Degree.

The Computer Network Engineering Program prepares students to work in the area of network support, a field which currently commands excellent salaries. Students are given extensive training for many of the major industry certification exams: A+, Microsoft and Cisco. Graduates are currently working as LAN/WAN specialists, network administrators, Internet/intranet administrators and network designers, and network engineers.

In addition to the Degree program, the department offers Skills Competency Awards for the CCNA and CCNP certifications.

Graduates from the Computer Network Engineering Department benefit greatly from the excellent reputation Santa Barbara City College has earned. In contrast to those with only highly specific training, the broad education received by our students makes them preferred job candidates with many local employers.

Program Student Learning Outcomes
1. Apply basic computer hardware and software concepts to install, trouble-shoot and manage home and small business computer network systems.
2. Using appropriate IP addressing scheme and appropriate networking hardware and software, design, trouble-shoot and maintain a computer network infrastructure for small to medium size organizations.
3. Identify computer network security threats and vulnerabilities for a given network, choose appropriate network security hardware and software for a given security requirement, and apply necessary security measures to prevent a possible computer network compromise.
4. Given a computer network engineering problem, apply critical thinking, problem-solving techniques and effective communications skills to find solutions to the problem.

Department Offices
Division: Technologies
Angel Cardenas, Chair (A-183, ext. 3063)
Behzad Masooman, Lab Teaching Assistant (A-182A, ext. 2753)
Alan Price, Dean (A-218 ext. 3044)

Faculty and Offices
Angel Cardenas (A-183, ext. 3063)
Mohammad El-Soussi (A-179, ext. 2512)

Requirements for AS Degree:
Computer Network Engineering
Department Requirements (41-42 units)
CIS 201 — UNIX/Linux System Administration or...........4
CIS 206 — MS Windows Server System Admin or...........4
CIS 213 — MS Exchange Server Administration or...........3
CIS 219 — VMWare vSphere System Administration........3
CNEE 101 — Introduction to Computer Network Technology ........................................3
CNEE 102 — Managing and Maintaining Computer Hardware A+ ........................................3
CNEE 106 — Telecommunications and WAN ..................3
CNEE 110 — Networking Essentials ..........................3
CNEE 112 — Managing and Maintaining Computer Software A+ ........................................3
CNEE 120 — Fundamentals of Network Security .............3
CNEE 124 — Internetworking with TCP/IP ....................3
CNEE 125* — CCNA I: Introduction to Networking and Routers..............................5
CNEE 126+ — CCNA II: Switching and WAN ...................... 5
CNEE 146 — Firewalls and VPNs .................................... 4
CNEE 206 — MS Windows Network Infrastructure .......... 3

*Students who completed CNEE 131 and 132 are exempt from taking CNEE 125.
+Students who completed CNEE 133 and 134 are exempt from taking CNEE 126.

**Recommended Course Sequence**

*First Semester*

CNEE 101 — Introduction to Computer Network Technology .................................................. 3
CNEE 102 — Managing and Maintaining Computer Hardware A+ ........................................... 3
CNEE 106 — Telecommunications and WAN .......................................................... 3

*Second Semester*

CNEE 110 — Networking Essentials ........................................................ 3
CNEE 112 — Managing and Maintaining Computer Software A+ ........................................ 3
CNEE 124 — Internetworking with TCP/IP ........................................................ 3
CNEE 125 — CCNA I: Introduction to Networking and Routers ........................................... 5

*Third Semester*

CNEE 120 — Fundamentals of Network Security .................................................. 3
CNEE 126 — CCNA II: Switching and WAN .................................................. 5

*Fourth Semester*

CNEE 146 — Firewalls and VPNs ........................................................ 4
CNEE 206 — MS Windows Network Infrastructure .................................................. 3
CIS 206 — MS Windows Server System Admin .................................................. 4

**College Requirements**

For complete information, see “Graduation Requirements” in the Catalog Index.

**Requirements for Certificate of Achievement: Computer Network Engineering**

**Department Requirements (41-42 units)**

- CIS 201 — UNIX/Linux System Administration or ........................................... 4
- CIS 206 — MS Windows Server System Admin or ........................................... 4
- CIS 213 — MS Exchange Server Administration or .................................... 3
- CIS 219 — VMWare vSphere System Administration ........................................... 3
- CNEE 101 — Intro to Computer Network Technology ...................................... 3
- CNEE 102 — Fundamentals of PC Support .................................................. 3
- CNEE 106 — Telecommunications and WAN .................................................. 3
- CNEE 110 — Networking Essentials .................................................. 3
- CNEE 112 — Managing and Maintaining Computer Software A+ ........................................... 3
- CNEE 120 — Fundamentals of Network Security .................................................. 3
- CNEE 124 — Internetworking with TCP/IP .................................................. 3
- CNEE 125* — CCNA I: Introduction to Networking and Routers ........................................... 5
- CNEE 126+ — CCNA II: Switching and WAN .................................................. 5
- CNEE 146 — Firewalls and VPNs ........................................................ 4
- CNEE 206 — MS Windows Network Infrastructure .................................................. 3

*Students who completed CNEE 131 and 132 are exempt from taking CNEE 125.
+Students who completed CNEE 133 and 134 are exempt from taking CNEE 126.

Recommended Sequence: First semester: CNEE 101, 102, 106; second semester: CNEE 110, 112, 124, 125; third semester: CNEE 120, 126; fourth semester: CNEE 146, 206, CIS 206.

Certificate of Achievement Requirements: Complete all department requirements for the certificate with a cumulative GPA of 2.0 or better. Candidates for a Certificate of Achievement are required to complete at least 20% of the department requirements through SBCC.

**Skills Competency Award: Cisco Networking Associate**

**Department Requirements (10 units)**

- CNEE 125* — CCNA I: Introduction to Networking and Routers ........................................... 5
- CNEE 126+ — CCNA II: Switching and WAN .................................................. 5

*Students who completed CNEE 131 and 132 are exempt from taking CNEE 125.
+Students who completed CNEE 133 and 134 are exempt from taking CNEE 126.

Students must complete the above courses with a grade of “C” or higher or credit in all courses.

**Program Cost and Outcome**

For planning purposes, the webpage below provides information on the cost of attendance, program length (assuming a student attends full time), financing
options and historical student completion rates: www.sbcc.edu/financialaid/gainfulemployment/Computer%20Network%20Engineering.htm

**Computer Network Engineering Courses**

CNEE 101 — Introduction to Computer Network Technology
(3) — CSU, UC
Skills Advisories: MATH 4 and Eligibility for ENG 110 or 110H
Hours: 54 lecture

Technical introduction to data communications and networks. It provides a thorough understanding of basic network components, and how they're implemented in a system. Topics include data communications hardware and software, transmission methodologies and rates, standards, protocols, terminology and concepts.

CNEE 102 — Managing and Maintaining Computer Hardware A+
(3) — CSU
Skills Advisories: MATH 4 and Eligibility for ENG 110 or 110H
Hours: 72 (45 lecture, 27 lab)

Technical introduction to managing and maintaining computer hardware. Prepares for A+ Hardware Certification exam. Includes hands-on lab activities.

CNEE 106 — Telecommunications and WAN
(3) — CSU
Skills Advisories: Eligibility for ENG 103
Hours: 54 lecture

Introduction to voice, data and video communications. Overview of the telecommunications industry, customer premises equipment, switched and private networks, transmission media, fiber optics, T-1 technology, channel banks, switching and signaling; advanced telecommunications services, local area networks, wide area networks, Internet, ISDN, personal computing systems and telecommunications protocols.

CNEE 110 — Networking Essentials
(3) — CSU
Skills Advisories: MATH 4 and Eligibility for ENG 110 or 110H
Course Advisories: CNEE 102
Hours: 72 (45 lecture, 27 lab)

Introduction to networking components and systems. Networking standards, protocols, operating systems, security, media and hardware.

CNEE 112 — Managing and Maintaining Computer Software A+
(3) — CSU
Skills Advisories: MATH 4 and Eligibility for ENG 110 or 110H
Course Advisories: CNEE 102
Hours: 72 (45 lecture, 27 lab)

Technical introduction to managing and maintaining computer software. Prepares for A+ Software Certification exam. Includes hands-on lab activities.

CNEE 120 — Fundamentals of Network Security
(3) — CSU
Skills Advisories: MATH 4 and Eligibility for ENG 110 or 110H
Course Advisories: CNEE 110
Hours: 90 (36 lecture, 54 lab)

Fundamentals of network security principles and implementation. Covers authentication, attacks and malicious code, threats and countermeasures, security topologies, intrusion detection, cryptography, firewalls and physical security concepts.

CNEE 124 — Internetworking with TCP/IP
(3) — CSU
Skills Advisories: MATH 4 and Eligibility for ENG 110 or 110H
Course Advisories: CNEE 110
Hours: 90 (36 lecture, 54 lab)

Introduction to TCP/IP Protocol Suite, including IPv4 and IPv6 addressing, name resolution, and other concepts and information relevant to setting up and using TCP/IP-based networks.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Units</th>
<th>Skills Advisories</th>
<th>Course Advisories</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNEE 125</td>
<td>CCNA I: Introduction to Switching and Routing</td>
<td>5 CSU</td>
<td>126</td>
<td>MATH 4 and Eligibility for ENG 110 or 110H</td>
<td>CNEE 110</td>
<td>72 lecture, 54 lab</td>
<td>First half of CCNA certification preparation. Networking concepts, switching, static and dynamic routing.</td>
</tr>
<tr>
<td>CNEE 126</td>
<td>CCNA II: Advanced Routing and Switching and Wireless</td>
<td>5 CSU</td>
<td>126</td>
<td>MATH 4 and Eligibility for ENG 110 or 110H</td>
<td>CNEE 125</td>
<td>72 lecture, 54 lab</td>
<td>Second half of CCNA certification preparation. Advanced routing and switching concepts. Introduction to wireless networks.</td>
</tr>
<tr>
<td>CNEE 135</td>
<td>CCNP 1: Advanced Routing</td>
<td>4 CSU</td>
<td>108</td>
<td>MATH 4 and Eligibility for ENG 110 or 110H</td>
<td>CCNA certification</td>
<td>54 lecture, 54 lab</td>
<td>Advanced Cisco routing configurations: OSPF, EIGRP, IS-IS, BGP and extended IP addressing. Designed to provide classroom and laboratory experience in current and emerging technologies leading to CCNP certification exam.</td>
</tr>
<tr>
<td>CNEE 136</td>
<td>CCNP 2: Remote-Access Networks</td>
<td>4 CSU</td>
<td>108</td>
<td>MATH 4 and Eligibility for ENG 110 or 110H</td>
<td>CNEE 126</td>
<td>54 lecture, 54 lab</td>
<td>WAN protocols, remote-access, network management and security, NAT and VPN. Second semester for Cisco Certified Network Professional.</td>
</tr>
<tr>
<td>CNEE 137</td>
<td>CCNP 3: Multi-Layer Switching</td>
<td>4 CSU</td>
<td>108</td>
<td>MATH 4 and Eligibility for ENG 110 or 110H</td>
<td>CNEE 126</td>
<td>54 lecture, 54 lab</td>
<td>Layers 2 and 3 switching, VLANs and routing. Third semester for Cisco Certified Network Professional. Provides classroom and laboratory experience in current and emerging technologies leading to Cisco certification.</td>
</tr>
<tr>
<td>CNEE 138</td>
<td>CCNP 4: Network Trouble-shooting</td>
<td>4 CSU</td>
<td>108</td>
<td>MATH 4 and Eligibility for ENG 110 or 110H</td>
<td>CNEE 137</td>
<td>54 lecture, 54 lab</td>
<td>Cisco routers and switches trouble-shooting. Fourth semester for Cisco Certified Network Professional. Provides classroom and laboratory experience in trouble-shooting leading to CCNP.</td>
</tr>
<tr>
<td>CNEE 146</td>
<td>Firewalls and VPNs</td>
<td>4 CSU</td>
<td>108</td>
<td>MATH 4 and Eligibility for ENG 110 or 110H</td>
<td>CNEE 125</td>
<td>54 lecture, 54 lab</td>
<td>Cisco advanced course on installation, configuration and operation of network security on Cisco routers and firewalls: AAA, access control, intrusion detection, NAT and VPN.</td>
</tr>
<tr>
<td>CNEE 175</td>
<td>Cisco Network Associate Review</td>
<td>1.5 CSU</td>
<td>45</td>
<td>MATH 4 and Eligibility for ENG 110 or 110H</td>
<td>CNEE 126</td>
<td>18 lecture, 27 lab</td>
<td>Intensive course designed as a review of Cisco Network Associate principles.</td>
</tr>
</tbody>
</table>
CNEE 206 — MS Windows Network Infrastructure
(3) — CSU
Skills Advisories: MATH 4 and Eligibility for ENG 110 or 110H
Course Advisories: CNEE 110 and CIS 206
Hours: 72 (45 lecture, 27 lab)
Introduction to MS Windows network infrastructure. Installation, configuration, management and support of DHCP, DNS, WEB, security and Internet services. Includes hands-on lab activities.

CNEE 219 — Advanced Automotive Electronics
(4) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 72 lecture
Provides basic theory and practice of automotive electronic system operation and trouble-shooting. Covers the basic building blocks of circuits and digital systems. Focuses on batteries, starters, voltage regulators, lighting systems, ignition systems, alternators and computer systems.

CNEE 295 — Internship in Computer Network Engineering and Electronics
(2-4) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Limitation on Enrollment: Completion of two courses in CNEE prior to enrollment in an internship course.
Hours: 273 lab
Structured Internship program in which students gain experience with community organizations related to the discipline.
Computer Science
(See “Computer Information Systems” section for additional computer courses.)

Degrees, Certificates and Awards
Associate in Science Degree: Computer Science
Certificate of Achievement: Computer Science
Skills Competency Award: Web Programming
Skills Competency Award: Mobile Application Developer

Program Description
We are in the Computer Age. Virtually every occupation in the world today has an interface with computers. From the microprocessor under the hood of your automobile to the larger scale systems used by Congress to formulate new laws, we all are affected in our daily lives by computers. Never before in history has any single endeavor grown so fast or become so universally accepted.

At Santa Barbara City College, we are helping students meet the challenge presented by this new technology. Classes, from introductory to advanced topics, are designed to provide General Education, transfer and occupational training. The AS Degree requirements to follow are designed to prepare students for employment or for transfer to both the CSU and UC systems.

Program Student Outcomes
1. Decompose problems into algorithms.
2. Create programs, using at least three languages.
3. Create programs that use flow control and looping constructs (e.g., for and while).
4. Create programs that utilize standard data structures (e.g., queues and lists).
5. Create programs that use object-oriented concepts.
6. Create programs, using current programming environments.

Department Offices
Computer Center (H-245, ext. 2401/2402)
Dean Nevins, Chair (H-216, ext. 5191)
Sophia Hamrin, Lab Teaching Assistant
James Howard, Lab Teaching Assistant
Marilynn Spaventa, Dean

Faculty and Offices
Jacqueline Kuehn (H-215, ext. 2693)
Salmaun (Sam) Masooman (H-225, ext. 2452)
Dean Nevins (H-216, ext. 5191)
Stephen Strenn (H-217, ext. 2490)

AS Computer Science Degree Requirements
Department Requirements (33-37 units)
CS 105 — Theory and Practice I........................................3
CS 106 — Theory and Practice II.....................................3
CS 107 — Computer Architecture and Organization.............3
CS 108 — Discrete Structures............................................4
CS 140 — Object-Oriented Prog, Using C++......................4
MATH 150 — Calculus with Analytic Geom. I....................5
PHYS 121 — Mechanics of Solids and Fluids.....................5

Plus at least 6 units from the following:
CS 104 — Introduction to Programming.............................4
CS 111 — HTML and Webmastering..................................3
CS 115 — JavaScript and Dynamic HTML........................3
CS 116 — Webserver Programming..................................3
CS 120 — Java Programming............................................3
CS 123 — Android Programming....................................1.5
CS 130 — Intro. to the Linux Operating System...............2.5
CS 132 — Digital Logic Design......................................3
CS 133 — Intro to Programming for Engineers................3
CS 137 — C Programming.............................................3
CS 165 — Software Design Patterns.................................1.5
CS 180 — Software Engineering with UML........................3
CS 187 — iOS Programming...........................................3
CS 189 — Programming Practicum..................................1
MATH 160 — Calculus with Analytic Geom II....................5
MATH 200 — Multivariable Calculus.................................4
MATH 210 — Linear Algebra..........................................4
MATH 220 — Differential Equations.................................4
PHIL 205 — Introduction to Logic..................................3
PHYS 122 — Electricity and Magnetism............................5

*NOTE: PHYS 102 does not count toward department requirement if either PHYS 121 or 122 has been taken.
MATH 250/260 may also be count toward the elective requirement. A course used to satisfy one requirement may not be used to satisfy another requirement (double-counting is not allowed).

College Requirements
For complete information, see "Graduation Requirements" in the Catalog Index.

Certificate of Achievement: Computer Science
Department Requirements (32.5-35.5 units)
CS 101 — Computer Concepts..........................4
CS 105 — Theory and Practice..........................3
CS 120 — Java Programming.............................3
CS 130 — Introduction to the Linux Operating System....2.5
CS 137 — C Programming or...........................3
CS 140 — Object-Oriented Programming Using C++ ......4
MATH 107 — Intermediate Algebra or .....................4
MATH 111 — Intermediate Algebra for Math, Science and Business Majors ........................................5
PHIL 205 — Introduction to Logic .........................3
PHYS 102 — Introduction to Physics for Science Majors ...4

Plus two courses from the following:
CS 106 — Theory and Practic II .............................3
CS 107 — Computer Architecture and Organization ......3
CS 111 — HTML and Webmastering ......................3
CS 137 — C Programming ..................................3
CS 140 — Object-Oriented Programming Using C++ ......4

Note: A course used to satisfy one requirement may not be used to satisfy another requirement (double-counting is not allowed).

Students must complete all department requirements for the certificate with a cumulative GPA of 2.0 or better. Candidates for a Certificate of Achievement are required to complete at least 20% of the department requirements through SBCC.

Skills Competency Award: Web Programming
Department Requirements (16-16.5)
CIS 230 — Active Server Pages Using Visual Basic or ......4
CS 125 — C# Programming and ........................3
CS 127 — ASP.NET Using C# ............................1.5
CS 111 — HTML and Webmastering ........................3
CS 115 — JavaScript and Dynamic HTML .................3
CS 116 — Web Server Programming ........................3
CS 120 — Java Programming ..............................3

Students must complete the above courses with a grade of “C” or higher or credit in all courses.

Skills Competency Award: Mobile Application Developer
Department Requirements (9-10.5)
CS 111 — HTML and Webmastering ......................3
CS 120 — Java Programming or .........................3
CS 125 — C# Programming ...............................3
CS 126 — Microsoft Mobile Device Programming .........1.5
CS 127 — ASP.net Using C# or ..........................1.5
CS 116 — Web Server Programming or ..................3
CS 187 — iPhone and iPod Touch Programming ............3

Students must complete the above courses with a grade of “C” or higher or credit in all courses.

Sample Program
To satisfy the course requirements of the Computer Science major, the student is encouraged to meet with a member of the Computer Science faculty for individualized guidance. A suggested course sequence for Computer Science courses follows:

First Year       Second Year
First Semester   Third Semester
CS 104           CS 106
MATH 150         CS 107
CS Elective      CS Elective
Second Semester  Fourth Semester
CS 105           108
PHYS 121         CS 140
CS Elective

Preparation for Transfer
Course requirements for transfer vary depending upon the college or university a student wishes to attend. Because Computer Science is such a competitive major at many four-year schools, it is most important for a student to consult with his/her counselor and departmental adviser before planning an academic program for transfer. Information sheets for majors, outlining transfer requirements, are available in the Counseling Center.
Program Cost and Outcome
For planning purposes, the webpage below provides information on the cost of attendance, program length (assuming a student attends full time), financing options and historical student completion rates: www.sbcc.edu/financialaid/gainfulemployment/Computer%20Science.htm

Computer Science Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
<th>Transferable to</th>
<th>Prerequisites</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 101</td>
<td>Computer Concepts</td>
<td>4</td>
<td>CSU, UC*</td>
<td>MATH 95 and Eligibility for ENG 103</td>
<td>72 lecture</td>
<td>Survey of the concepts of computer hardware and software, with emphasis on the latest technologies and programming. Topics include, but are not limited to, the Internet, productivity applications, databases, programming and numbering systems. Suitable for all majors and is a recommended first course for Computer Science majors. (*UC transfer limit: CS 101 combined with CIS 101: maximum credit, one course.)</td>
</tr>
<tr>
<td>CS 104</td>
<td>Introduction to Programming</td>
<td>3</td>
<td>CSU, UC</td>
<td>Eligibility for ENG 98 and 103</td>
<td>90 (36 lecture, 54 lab)</td>
<td>Exposes students to the fundamental concepts of programming using an object-oriented language and is intended as an introductory-level programming course. Ideal for beginners and also serves as the first course in a sequence that is compliant with the standards of the Association for Computing Machinery.</td>
</tr>
<tr>
<td>CS 105</td>
<td>Theory and Practice I</td>
<td>3</td>
<td>CSU, UC</td>
<td>CS 101 or CS 200</td>
<td>90 (36 lecture, 54 lab)</td>
<td>Study of fundamental programming concepts. Topics include structured and OOP programming, definition of data types, nested IFs, looping techniques, CASE statements, procedures, functions, value and address parameters, file structures, dynamic list structures and recursion.</td>
</tr>
<tr>
<td>CS 106</td>
<td>Theory and Practice II</td>
<td>3</td>
<td>CSU, UC</td>
<td>CS 105 with a minimum grade of “C”</td>
<td>90 (36 lecture, 54 lab)</td>
<td>Study of data structures and algorithms. Design, coding and testing of linked lists, trees, queues, stacks, hash tables, and other dynamic data structures, as well as searching and sorting algorithms. Time and space analysis of data structures and algorithms. Programs are written in the Java language.</td>
</tr>
<tr>
<td>CS 107</td>
<td>Computer Architecture and Organization</td>
<td>3</td>
<td>CSU, UC</td>
<td>CS 105</td>
<td>90 (36 lecture, 54 lab)</td>
<td>The organization and behavior of real computer systems at the assembly-language level. The mapping of statements and constructs in a high-level language into sequences of machine instructions is studied, as well as the internal representation of simple data types, pointers, structures, and non-numeric data. Numerical computation is also examined.</td>
</tr>
<tr>
<td>CS 108</td>
<td>Discrete Structures</td>
<td>4</td>
<td>CSU, UC</td>
<td>MATH 150</td>
<td>72 lecture</td>
<td>Introduction to the study of discrete objects, with a focus on applications in computer science. Topics include logic and proofs, sets, functions, sequences, sums, algorithms, integers, induction, recursion, counting, relations, graphs and trees.</td>
</tr>
<tr>
<td>CS 111</td>
<td>HTML and Webmastering</td>
<td>3</td>
<td>CSU</td>
<td>Eligibility for ENG 103</td>
<td>90 (36 lecture, 54 lab)</td>
<td>Project-oriented focus on the creation of web pages and the technology behind the web. Includes Hypertext Markup Language (HTML), Cascading Style Sheets (CSS), Forms, Extensible Markup Language (XML), Common Gateway Interface (CGI) and Content Management Systems (CMS). Students must also enroll in a CS 111 lab.</td>
</tr>
</tbody>
</table>
CS 114 — Python Programming  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 103  
Hours: 90 (36 lecture, 54 lab)  
Introduction to Python language programming. Covers the python data model (objects, values and types), import system, expressions (unary, binary, comparisons, lambdas and expression lists), simple and compound statements, objects and object-oriented programming, and the Python library. Features problem-solving with Python across multiple domains, basic software engineering principles, and debugging techniques.

CS 115 — JavaScript and Dynamic HTML  
(3) — CSU  
Skills Advisories: Eligibility for ENG 103  
Course Advisories: CS 111  
Hours: 90 (36 lecture, 54 lab)  
Project-oriented introduction to JavaScript programming, and using JavaScript with cascading style sheets to implement cutting-edge webpage effects with Dynamic HTML.

CS 116 — Web Server Programming  
(3) — CSU  
Skills Advisories: Eligibility for ENG 110 or 110H  
Course Advisories: CS 111 or 120  
Hours: 90 (36 lecture, 54 lab)  
Project-oriented class that explores programming a Web server using PERL, Active Server Pages (ASP), Personal Home Pages (PHP) and Python, with an emphasis on PERL and PHP. Class develops Common Gateway Interface (CGI) scripts and Internet applications using these common tools. Includes such topics as e-commerce, security, browser independence and database integration.

CS 120 — Java Programming  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 103  
Course Advisories: CS 101 and/or CIS 101 and/or CS 200  
Hours: 90 (36 lecture, 54 lab)  
Study of the Java programming language. Topics include classes, encapsulation, inheritance, packages and methods. Students study, design, and develop multiple applications in the course.

CS 123 — Android Programming  
(1.5) — CSU, UC*  
Skills Advisories: Eligibility for English 110 or 110H  
Course Advisories: CS 120 or 125  
Hours: 42 (18 lecture, 24 lab)  
Project-based development of applications for the Android platform. Students use state-of-the-art tools and frameworks to build and analyze programs that incorporate user interfaces, web services, animation, multimedia and location awareness. (UC transfer limit: No credit for CS 123 unless taken subsequent to or concurrently with CS 120)

CS 124 — Advanced Android Programming  
(1.5) — CSU  
Skills Advisories: Eligibility for English 110 or 110H  
Course Advisories: CS 105  
Hours: 45 (18 lecture, 27 lab)  
Project-based course covering the development of advanced applications for the Android platform. Students use state-of-the-art tools and frameworks to build and publish programs that incorporate capabilities such as background services, app widgets, and license verification.

CS 125 — C# Programming  
(1.5) — CSU  
Skills Advisories: Eligibility for ENG 103  
Course Advisories: CS 120 or 125  
Hours: 86 (38 lecture, 48 lab)  
Study of the programming language C# (C sharp). Definition of data types, loop control structures, functions, parameter passing, pointers, recursion, records, data structures, object-oriented techniques, the .NET framework, exception handling, interfaces, scoping rules, and supplied system objects.

CS 126 — Microsoft Mobile Device Programming  
(1.5) — CSU  
Skills Advisories: Eligibility for ENG 110 or 110H  
Course Advisories: CS 120 or 125  
Hours: 45 (18 lecture, 27 lab)  
The use of C# in developing applications for wireless devices, such as mobile phones and personal digital assistants. Students use mobile device frameworks to create user interfaces and access data from databases, XML documents and web services.
CS 127 — ASP.NET Using C#  
(1.5) — CSU  
Course Advisories: CS 125  
Hours: 45 (18 lecture, 27 lab)  
Study of the use of C# in developing Active Server Page (ASP)-based dynamic websites. The use of the .NET framework, working with data and XML, error handling, ASP.NET server controls, custom controls and optimizing applications.

CS 129 — Java Server Programming  
(1.5) — CSU, UC  
Skills Advisories: Eligibility for ENG 98  
Course Advisories: CS 120  
Hours: 45 (18 lecture, 27 lab)  
Project-oriented introduction to Java 2 Enterprise Edition (J2EE) Web application development. Students learn to design, build and deploy Web applications. Servlets, Java Server Pages, Java DataBase Connectivity, JavaMail, eXtensible Markup Language processing and Enterprise JavaBeans are investigated.

CS 130 — Introduction to the Linux Operating System  
(2.5) — CSU, UC  
Skills Advisories: Eligibility for ENG 103 and Proficiency in MATH 4  
Course Advisories: CS 101  
Hours: 63 (36 lecture, 27 lab)  
Survey of the Unix/Linux operating system and related subject matter. Topics include Unix/Linux architecture, commands, file system, processes and bash shell environment. Lectures and computer laboratory exercises provide a moderate-depth understanding of Unix/Linux architecture and commands from a computer science perspective.

CS 132 — Digital Logic Design  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 103 and proficiency in MATH 104 or 107 or 111  
Hours: 90 (36 lecture, 54 lab)  
Introduction to digital systems and logic design. Logic of propositions, boolean algebra, minterm and maxterm expansions, Karnaugh maps, Quine-McCluskey methods, multi-level circuits, combinational and sequential circuit design and timing diagrams, multiplexers, decoders, programmable logic devices, latches and flip-flops, finite state machines, registers and counters, register transfer language, simulation and debugging.

CS 133 — Introduction to Programming for Engineers  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 110 or 110H; MATH 107  
Course Advisories: CS 101 or CIS 101  
Hours: 90 (36 lecture, 54 lab)  
General philosophy of programming for engineering majors. Students are introduced to a modern programming language (Matlab). Specific areas of study include algorithms, basic decision structures, arrays, matrices and graphing.

CS 137 — C Programming  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 103  
Course Advisories: CS 131 or 135  
Hours: 78 (42 lecture, 36 lab)  
Study of the programming language C. Definition of data types, loop controls structures, functions, parameter passing, pointers, recursion, records data structures, object-oriented techniques and the Unix operating system.

CS 140 — Object-Oriented Programming Using C++  
(4) — CSU, UC  
Skills Advisories: Eligibility for ENG 103  
Course Advisories: CS 120 or 137  
Hours: 108 (54 lecture, 54 lab)  
Study of the object-oriented programming paradigm, including objects, messages, encapsulation, classes, inheritance and implementation issues. Implementations written in the object-oriented language C++.

CS 142 — Windows Programming with C++.NET  
(3) — CSU  
Skills Advisories: Eligibility for ENG 103  
Course Advisories: CS 140  
Hours: 90 (36 lecture, 54 lab)  
Study of Microsoft Windows programming with Visual C++.NET. Explores the difference between legacy windows programming using the Windows Software Developer’s Kit (SDK) and Microsoft foundation classes (MFC) with state-of-the-art Windows.NET programming tools.
CS 145P — Introduction to Data Structures
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 103
Course Advisories: CS 135
Hours: 78 (42 lecture, 36 lab)
Study of data structures and algorithms. Design, coding and testing of linked lists, trees, queues, stacks, hash tables, and other dynamic data structures, as well as searching and sorting algorithms. Time and space analysis of data structures and algorithms. Programs are written in the Pascal language.

CS 165 — Software Design Patterns
(1.5) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: CS 105 and 140
Hours: 45 (18 lecture, 27 lab)
Introduction to software design patterns and their use in object-oriented systems. Creational, structural and behavioral patterns are investigated. Real world examples by acknowledged experts are studied. Students strengthen their software design skills by applying patterns in course projects. State of the art development tools are used throughout the course.

CS 180 — Software Engineering with UML
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: CS 105
Hours: 90 (36 lecture, 54 lab)
Study of software engineering and component-based design, using the Unified Modeling Language (UML). Students employ a standard software engineering process that includes requirements analysis, design, implementation and testing. Students learn about various UML diagrams and use them to express software requirements and designs. Investigates rapid application development, using state-of-the-art tools and component libraries.

CS 187 — iOS Programming
(3) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: CS 105
Hours: 90 (36 lecture, 54 lab)
Project-oriented course in developing Objective-C based native applications for the iOS devices (e.g. iPhone, iPad). Covers development tools (Xcode, Interface Builder, Instruments). Objective-C language, Cocoa and Cocoa Touch frameworks, as well as deployment to the App store.

CS 189 — Programming Practicum
(1) — CSU
Hours: 18 lecture
Programming course focused on rapid team-based, problem-solving techniques. Problems are rapidly classified based on difficulty and the ability to partition the problem across the team. Algorithms are developed to solve those problems using standard tools and libraries. Emphasis on leadership skills, team dynamics and team problem-solving.
Construction Technology

Degrees and Certificates
Associate in Science Degree: Construction Technology
Certificate of Achievement: Construction Technology

Program Description
Construction Technology offers a series of carpentry courses, green-collar training courses and electrician trainee courses. Beginning Construction (CT 110), the introductory course, is open to all students.

The advanced Construction Technology carpentry courses—Beginning Construction Trades (CT 111), Framing (CT 112), Roof Framing (CT 113), Beginning Finish Carpentry (CT 114), Intermediate Finish Carpentry (CT 115), Blueprint Reading (CT 116), Measuring and Calculating (CT 118), and Construction Remodel (CT 119)—are designed for students who have completed CT 110, or those with a minimum of one year of carpentry experience. Work Experience in Construction (CT 290) combines on-the-job training with classroom instruction.

Building Green (CT 122), Weatherization (CT 124) and Introduction to PhotoVoltaic Systems (CT 125) do not require any previous building classes.

Santa Barbara City College (Division of Apprenticeship Standards, Electricians Certification Unit Approved School #138) offers four Electrician Trainee courses as a “partial” General Electrician curriculum. The courses—Blueprint Reading for Electricians, Electrical Mathematics and Introduction to National Electrical Code—are designed for students working as electricians who want to prepare for the state certification exam and those required to be enrolled in order to continue working for a C-10 electrical contractor’s license.

For further information concerning the carpentry courses or the Electrician Trainee courses, contact Patrick Foster at (805) 455-3187.

Program Student Learning Outcomes
1. Use construction tools safely and efficiently.
2. Demonstrate knowledge of component systems of typical residence.
3. Build a typical construction structure (wall, roof, cabinet, etc.).
4. Install typical construction trim (fascia, base, crown, etc.).
5. Demonstrate understanding of the necessity and components of building science and green building.

Faculty and Offices
Patrick Foster, Director
(805) 455-3187 (foster@sbcc.edu)
Alan Price, Dean (A-218, ext. 3044)

AS Construction Technology Degree Requirements
Department Requirements (41.1 units)
CT 110 — Beginning Construction ...............................4.7
CT 111 — Beginning Construction Trades ..................4.7
CT 112 — Framing ..................................................3
CT 113 — Roof Framing ..........................................3
CT 114 — Beginning Finish Carpentry .....................3
CT 115 — Intermediate Finish Carpentry ..................3
CT 116 — Blueprint Reading ....................................3
CT 118 — Measuring and Calculating ......................3
CT 119 — Construction Remodel ............................4.7
CT 122 — Building Green ......................................6
CT 124 — Weatherization ......................................3

College Requirements
For complete information, see “Graduation Requirements” in the Catalog Index.

Certificate of Achievement: Construction Technology
Department Requirements (41.1 units)
CT 110 — Beginning Construction ...............................4.7
CT 111 — Beginning Construction Trades ..................4.7
CT 112 — Framing ..................................................3
CT 113 — Roof Framing ..........................................3
CT 114 — Beginning Finish Carpentry .....................3
CT 115 — Intermediate Finish Carpentry ..................3
CT 116 — Blueprint Reading or ..............................3
CT 118 — Measuring and Calculating or ..................3
CT 119 — Construction Remodel ............................4.7
Construction Technology Courses

CT 104 — Basic Construction Skills
(3)
Hours: 70 (45 lecture, 25 lab)
Introduction to basic construction skills for residential wood construction. Designed for students interested in a career in home construction, focusing on career overview, safety, work ethics, tool use and basic framing.

CT 110 — Beginning Construction
(4.7) — CSU
Hours: 144 (54 lecture, 90 lab)
Introduction to construction skills and concepts, with emphasis on residential wood construction. Designed for entry-level students interested in a career in the building trades. Topics include safety, planning, foundation, floor framing, wall framing, roof framing and siding.

CT 111 — Beginning Construction Trades
(4.7) — CSU
Hours: 144 (54 lecture, 90 lab)
Introduction to basic construction skills and concepts of the sub-trades involved in residential wood construction: concrete work, roofing, sheetrock, insulation, plumbing and electrical. Overview of trades designed for students interested in a career in home construction.

CT 112 — Framing
(3) — CSU
Hours: 72 (45 lecture, 27 lab)
Intermediate-level class in rough framing skills and concepts in residential wood construction. Designed for continuing students who have taken CT 110 and for carpenters with some experience in residential framing. Topics include safety, layout, rafter design, rake walls and cornice treatment.

CT 113 — Roof Framing
(3) — CSU
Hours: 72 (45 lecture, 27 lab)
Intermediate-level class in rough framing skills and concepts in residential wood construction, with emphasis on roof framing. Designed for continuing students who have taken CT 110 and for carpenters with some experience in residential framing. Topics include safety, layout, rafter design, rake walls and cornice treatment.

CT 114 — Beginning Finish Carpentry
(3) — CSU
Hours: 72 (45 lecture, 27 lab)
Introduction to finish carpentry, with emphasis on residential wood construction. Designed for students who have already taken CT 110 or who have some prior experience in carpentry or construction. Topics include safety, tool care, door hanging, door and window easing, baseboard, crown molding, flooring, and close shelf and pole.

CT 115 — Intermediate Finish Carpentry
(3) — CSU
Hours: 72 (45 lecture, 27 lab)
Intermediate finish carpentry, with emphasis on residential wood construction. Designed for students who have taken CT 110 or who have some prior experience in carpentry or construction. Topics include cabinet installation, cabinet construction, built-ins, paneling and wainscoting.

CT 116 — Blueprint Reading
(3) — CSU
Course Advisories: Eligibility for ENG 98
Hours: 54 lecture
Introduction to blueprint reading in residential construction. Topics include understanding the uses of blueprints, types of plans, drafting conventions, contents of plans, focus on floor plans, elevations and sections, using the architectural scale, drafting simple plans, and shop drawings from plans.

CT 118 — Measuring and Calculating
(3) — CSU
Skills Advisories: MATH 1
Hours: 54 lecture
Introduction to measuring and calculating used in residential wood construction. Topics include working with common and decimal fractions, using the standard tape measure, using a calculator for construction, estimating material, understanding the special
triangles used in roof rafter calculations, rafter length calculation, and stair stringer calculation.

**CT 119 — Construction Remodel**  
*(4.7) — CSU*  
*Hours: 144 (54 lecture, 90 lab)*

Theory and skills for residential home remodeling. Designed for continuing students who have taken CT 110 and carpenters with some experience in residential construction. Topics include design, planning, demolition, tie-in, green applications and safety.

**CT 121 — Blueprint Reading for Electricians**  
*(3) — CSU*  
*Skills Advisories: Eligibility for ENG 98 and 103*  
*Hours: 54 lecture*

Overview of blueprints, plans and specifications; symbols used in electrical-related trades; preparation and use of as-built drawings, wiring and line diagrams, schematics and ladder diagrams. Approved School #138 for California Electrician Trainees.

**CT 122 — Building Green**  
*(6) — CSU*  
*Hours: 108 lecture*

Overview of Green Building approach to design, planning and construction details in sustainable building. Includes site protection, water conservation and management, energy efficiency, solar heating and PV, material efficiency, deconstruction, insulation, indoor air quality, building performance and alternative building techniques.

**CT 123 — Outdoor Structures**  
*(3) — CSU*  
*Hours: 72 (45 lecture, 27 lab)*

Designing and building outdoor structures (trellises, pergolas, gazebos, sheds, gateways, decks, etc.). Topics include foundations, finished framing, roofs, hardware, joints, weatherproofing, etc.).

**CT 124 — Building Performance**  
*(3) — CSU*  
*Hours: 72 (45 lecture, 27 lab)*

Overview of building performance (assessment, diagnosis and remediation) in residential construction. Topics include building science, diagnostic testing, visual inspection, remediation, customer relations and business and job opportunities.

**CT 125 — Introduction to Photovoltaic Systems**  
*(3) — CSU*  
*Hours: 90 (36 lecture, 54 lab)*

Overview of Photovoltaic (PV) systems and installations. Topics include solar radiation, site survey, system components and configurations, batteries, inverters, system sizing, mechanical and electrical integration.

**CT 127 — Sustainability Audit**  
*(3) — CSU*  
*Hours: 72 (45 lecture, 27 lab)*

Overview of whole-house or sustainability audit (energy, water, indoor air quality, landscape) in residential construction. Topics include: career and business opportunities, comprehensive audit categories, the audit process, auditing tools and diagnostic tests, site inspection, surveys and recommendations.

**CT 128 — Beginning Plumbing**  
*(3) — CSU*  
*Hours: 72 (45 lecture, 27 lab)*

Overview of plumbing in residential construction. Topics include supply and DWV systems, materials, connections, tools used, fixtures, code requirements, etc.

**CT 129 — Construction Estimation**  
*(3) — CSU*  
*Hours: 54 lecture*

Introduction to estimating in residential construction. Topics include current estimation programs, software, material and labor calculations, take-offs from blueprints, carpentry and other-trade estimating, etc.

**CT 130 — Contractors License Preparation**  
*(3)*  
*Hours: 54 lecture*

Combination online and mandatory in-class course, divided into two eight-week sessions: law and trade. Prepares the student for taking the California State Contractors License Exam in the General Contractor (B-1) category.
CT 132 — Lighting Systems  
(3) — CSU  
Hours: 54 lecture  
Basic function, operation, installation and characteristics of various lighting systems.

CT 133 — Motors, Motor Controllers, and Process Controllers  
(3) — CSU  
Hours: 54 lecture  
Basic function, operation, installation and characteristics of various types of motors (AC, DC, dual voltage, repulsion, universal, 3-phase, Squirrel Cage, Synchronous).

CT 134 — Transformers  
(3) — CSU  
Hours: 54 lecture  
Basic function, operation, installation and characteristics of transformers.

CT 135 — Grounding Systems  
(3) — CSU  
Hours: 54 lecture  
Basic function, operation and characteristics of grounding systems.

CT 136 — Electrical Theory  
(3) — CSU  
Hours: 54 lecture  
Basic electrical theory topics include ohms law, series/parallel circuits, voltage, magnetism, 3-phase systems, AC/DC theory, inductance and capacitance, etc.

CT 137 — Specialty Systems  
(3) — CSU  
Hours: 54 lecture  
Basic function, operation and characteristics of specialty electrical systems. Topics include fire alarms, security alarms, voice/data/tv/video, signaling systems, lighting protection systems, fiber-optic systems, etc.

CT 139 — Construction Project Management  
(3) — CSU  
Hours: 54 lecture  
Introduction to managing projects in residential construction. Topics include overview of management programs and software, bidding, preconstruction set up, project budget, daily work plan, team roles, safety plan and job completion.

CT 153 — Electrical Mathematics  
(3) — CSU  
Skills Advisories: MATH 1  
Hours: 54 lecture  
Basic mathematics and its application to electrical and other technologies. Topics in arithmetic, common fractions, decimal fractions, percentages, graphs, measurement and introduction to algebra are covered. Approved School #138 for California Electrician Trainees.

CT 194 — Introduction to National Electrical Code  
(3) — CSU  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 54 lecture  
Layout and content of the National Electric Code. Purpose, intent and scope of electrical codes, as well as utilization and application. Also includes use of the Code for calculations and hazardous locations. Approved School #138 for California Electrician Trainees.

CT 196 — Jobsite Management  
(3) — CSU  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 54 lecture  
Introduction to jobsite supervision in the construction industry. Includes industry organization, documentation and record-keeping, personnel and financial management, as well as job planning and safety. Approved School #138 for California Electrician Trainees.

CT 290 — Work Experience in Construction  
(1 – 4) — CSU  
Hours: 60-300 lab  
Work experience on a construction job or project, plus attending one orientation and a monthly meeting. Students perform assigned responsibilities as an employee, follow employer’s rules, regulations and policies, write learning objectives, keep a record of time worked on a student data sheet, and secure employer’s evaluation at the end of the semester.
Cosmetology

Degrees, Certificates and Awards
Associate in Science: Cosmetology
Certificate of Achievement: Cosmetology
Skills Competency Award: Esthetician, Level 1
Skills Competency Award: Esthetician, Level 2

Program Description
The Cosmetology Department prepares students to become the creative, well-trained professionals demanded by today’s beauty industry. Programs qualifying graduates to take the California State Board licensing examinations in Cosmetology, Esthetician and Manicure are available. Lecture and “hands-on” training is provided at the SBCC Cosmetology Academy (5160 Hollister Avenue in Goleta).

Program Student Learning Outcomes
1. Apply principles of shampooing, hair shaping and hair styling
2. Apply permanent waves, chemical relaxing and soft curls
3. Analyze scalp and hair
4. Apply all phases of hair coloring and lightening
5. Create styles, using basic and advanced techniques
6. Administer facials, hair removal techniques and makeup services to provide care for the skin
7. Provide basic nail care and artificial nail techniques
8. Utilize safety and sanitary procedures for all clients

Department Offices
Division: Health/Human Services
Michelle Puailoa, Chair
(5160 Hollister, (805) 683-4191)
Melissa Moreno, Dean
(Wake Campus, Rm. 1, (805) 683-8284)

Faculty and Offices
Brenda Hudson (5160 Hollister, (805) 683-4191, ext. 6)
Michelle Puailoa (5160 Hollister, (805) 683-4191)
Griselda Rosas (5160 Hollister, (805) 683-4191, ext. 3)

Application Procedures
   To pick up an application, visit the Cosmetology Academy, 5160 Hollister Ave., in the Magnolia Shopping Center.
2. Mail or deliver your completed application to the SBCC Cosmetology Academy at the address on the application.
3. Attend the required orientation meeting at the assigned time. Note: Placement in a class is based on the number of spaces available, the postmark or delivery date of completed applications, and attendance at the mandatory orientation meeting before the class starting date.
4. After attending the orientation, submit a Santa Barbara City College application to the Office of Admissions & Records in the Student Services Building on campus.
   To request an application, call the Cosmetology Academy, (805) 683-4191, ext. 2.

Cosmetology Academy Orientation Meetings
Accepted students must attend the specific orientation meeting a few weeks before the class they wish to enter. At the meeting, detailed program information will be provided, the Academy may be toured, and signed enrollment cards will be awarded for available space in the upcoming class. Meeting attendance alone cannot guarantee placement in a class; please see item 3 in the preceding section.

Cosmetology Program
The Cosmetology Program develops expertise in the science and techniques of hair, skin, makeup and nail care. Upon successful completion of 1,600 clock hours of applied preparation in lecture and lab experience in Cosmetology (CSMT 121-125), the student will be eligible to take the California State Board examination to become a licensed cosmetologist.
   To qualify for this exam, the graduate must be 17 or older, have completed the minimum program requirements, and have proof of completing at least the 10th grade and legal California residency.

Esthetician Program
The Esthetician Program meets the 600-hour requirement in two 12-unit, 360-hour course modules that are designed to develop skill sets in the science and
techniques of administering skin care treatments and expertly applied makeup. Upon successful completion of the 600 clock hours of applied preparation in lecture and lab experience in Cosmetology 131 and 132, the student is eligible to take the State Board examination to become a licensed esthetician.

To qualify for this exam, the graduate must be 17 or older, have completed the minimum program requirements, and have proof of completing at least the 10th grade and legal California residency.

Requirements for AS Degree: Cosmetology
An AS Degree in Cosmetology can be obtained by satisfying the Certificate of Achievement in Cosmetology requirements and the General Education and institutional requirements for the Associate in Science Degree. See “Graduation Requirements” in the Catalog Index.

Department Requirements
See “Requirements for Certificate of Achievement: Cosmetology.”

College Requirements
For complete information, see “Graduation Requirements” in the Catalog Index.

Requirements for Certificate of Achievement: Cosmetology
Department Requirements (60 units)
CSMT 121-123 — Introduction to Cosmetology —
Modules 1-3.................................................................36
CSMT 124-125 — Advanced Cosmetology —
Modules 4-5.................................................................24

Students must complete all department requirements for the certificate with a cumulative GPA of 2.0 or better.

Requirements for Skills Competency Award
Esthetician Program, Level 1
Department Requirements (12 units)
CSMT 131 — Esthetician Training: Module 1...............12

Students must complete the above course with a grade of “C” or better or “Pass”.

Esthetician Program, Level 2
Department Requirements (12 units)
CSMT 132 — Esthetician Training: Module 2...............12

Students must complete the above course with a grade of “C” or better or “Pass”.

Program Cost and Outcome
For planning purposes, the webpage below provides information on the cost of attendance, program length (assuming a student attends full time), financing options and historical student completion rates: www.sbcc.edu/financialaid/gainfulemployment/Cosmetology.htm

Cosmetology Courses
CSMT 121 — Introduction to Cosmetology —
Module 1
(12)
Hours: 360 (144 lecture, 216 lab)
First of five consecutive segments of instruction. Twelve units of Degree credit for 360 hours of class work completed with a “C” or better average. Designed as preparation for the Board of Barbering and Cosmetology Exam and successful career as a cosmetologist. Includes orientation, basic hair styling, manicuring, facials, makeup, permanent waving and scalp treatments, among other care regimens.

CSMT 122 — Introduction to Cosmetology —
Module 2
(12)
Prerequisites: CSMT 121
Hours: 360 (144 lecture, 216 lab)
Second of five consecutive segments of instruction. Twelve units of Degree credit for 360 hours of class completed with a “C” or better average. Designed as preparation for the Board of Barbering and Cosmetology Exam. Includes orientation, basic hair styling, manicuring, facials, makeup, permanent waving and scalp treatments, among other care regimens.
CSMT 123 — Introduction to Cosmetology —
Module 3
(12)
Prerequisites: CSMT 122
Hours: 360 (144 lecture, 216 lab)
Third of five consecutive segments of instruction.
Twelve units of Degree credit for 360 hours of class completed with a “C” or better average. Designed as preparation for the Board of Barbering and Cosmetology Exam. Includes hair design, manicuring and pedicuring, acrylic nails, facials and make-up, among other care regimens.

CSMT 124 — Introduction to Cosmetology —
Module 4
(12)
Prerequisites: CSMT 123
Hours: 360 (144 lecture, 216 lab)
Fourth of five consecutive segments of instruction. Twelve units of Degree credit for 360 hours of class completed with a “C” or better average. Designed as preparation for the Board of Barbering and Cosmetology Exam. Includes advanced hair design, advanced manicuring, advanced facials and make-up, among other care regimens.

CSMT 125 — Introduction to Cosmetology —
Module 5
(12)
Prerequisites: CSMT 124
Hours: 360 (144 lecture, 216 lab)
Fifth of five consecutive segments of instruction. Twelve units of Degree credit for 360 hours of class completed with a “C” or better average. Designed toward preparation for the Board of Barbering and Cosmetology Exam. Includes hair design, manicuring and pedicuring, facials and make-up. Also includes State Board mock written and performance exams.

CSMT 131 — Esthetician Training Module 1
(12)
Hours: 360 (144 lecture, 216 lab)
First of two consecutive segments of instruction. Twelve units of Degree credit for 360 hours of class completed with a “C” or better average. Designed as preparation for the Board of Barbering and Cosmetology Exam. Includes basic skin care, analysis of the skin, facial treatments, massage manipulations and temporary hair removal, among other care regimens.

CSMT 132 — Esthetician Training Module 2
(12)
Course Advisories: CSMT 131 with a minimum grade of “C”
Hours: 360 (144 lecture, 216 lab)
Second of two consecutive segments of instruction. Twelve units of Degree credit for 360 hours of class completed with a “C” or better average. Designed as preparation for the Board of Barbering and Cosmetology Exam. Includes advanced skin care procedures and techniques, chemical exfoliation, among other care regimens. Also includes State Board mock exams.
Culinary Arts and Hotel Management

Degrees, Certificates and Awards
Associate in Science: Culinary Arts
Associate in Science: Hospitality
Certificate of Achievement: Culinary Arts
Certificate of Achievement: Hospitality
Skills Competency Award: Baking and Pastry
Skills Competency Award: Hospitality Operations Specialist
Skills Competency Award: Human Resource Hospitality Specialist
Skills Competency Award: Personal Chef Training

A Certificate of Achievement in SCAHM is awarded for successful completion of all required SCAHM units with an overall GPA of 2.0 in these units. An Associate in Science Degree is earned by completing all college GE requirements, plus the SCAHM requirements, with an overall GPA of 2.0. The department also offers three Skills Competency Awards, two in the Hospitality Program and one in the Culinary Program.

Program Description
The School of Culinary Arts and Hotel Management Program develops skills and competencies for positions in the hospitality industry. This unique program mirrors industry standards by providing training in a realistic work environment. Students have the option of selecting either hotel or restaurant/culinary program tracks.

The School of Culinary Arts and Hotel Management Program provides students with measurable outcomes through training in the Cafeteria, Gourmet Dining Room and Coffee Shop, and through catering, purchasing and receiving services, utilizing state-of-the-art equipment.

Instructors possessing industry-recognized credentials and having years of experience direct each operation. The program is recognized nationally as a leading center for culinary and hospitality training.

Program Student Learning Outcomes
1. Students will be able to apply the concepts and techniques of sanitation to a food service environment.
2. Students will be able to demonstrate the use of proper purchasing, storage and costing techniques to profitably operate a food service establishment.
3. Students will be able to demonstrate the ability to work in a professional bakery.
4. Students will be able to demonstrate the ability to work in a professional kitchen as a line and pantry cook.
5. Students will be able to demonstrate the ability to work in a variety of dining room environments as a bus-person, waiter, table captain and sommelier.
6. Students will be able to demonstrate the knowledge and skills needed to serve a variety of beverages in a food service establishment.
7. Students will be able to demonstrate the relation of food to health and well-being.
8. Students will be able to demonstrate an understanding of the knowledge needed to be a supervisor in a food service establishment.

Work Experience
Students select one of the following two areas of specialization:
(1) Hotel or (2) Culinary. An integral part of each specialization is an off-campus industry-based work experience related to the students’ area of specialization.

Students are enrolled in a work experience, which opens career opportunities in the hospitality industry and further supplements laboratory experiences that expose them to their chosen field of interest within the diverse areas of hospitality.

Faculty and Offices
Randy Bublitz (CC-118, ext. 2458)
Charles Fredericks (CC-117, ext. 3099)
Stephane Rapp (CC-117, ext. 2459)
Department Office (CC-116, ext. 2458)
Alan Price, Dean (A-218, ext. 3044)

Honors and Awards
The School of Culinary Arts and Hotel Management Program is fortunate to be able to award several scholarships (varying from $50 to $1,500) each semester.
Advising
Our faculty is eager to counsel students exploring career opportunities in the hospitality industry. For academic counseling, call ext. 2285.

Program Acceptance
Applications for the Culinary Program should be submitted to the School of Culinary Arts and Hotel Management (SCAHM) Department. Call the department at (805) 965-0581, ext. 2458, for program information and to schedule an appointment and tour.

Associate in Science Degree: Hospitality
The Associate Degree is awarded upon completion of both department and college requirements.

College Requirements
For complete information, see “Graduation Requirements” in the Catalog Index.

Certificate of Achievement: Hospitality
Comprised of intensive eight-week courses, part-time students who enroll in two courses per semester will be able to complete the certificate in two years. Those who enroll full-time will be able to complete both the certificate and the degree in two years.

Fully accredited by the American Hotel and Lodging Association (AH and LA), students will receive AH and LA course certificates for each course they successfully complete. Students who earn this SBCC certificate will also qualify for the Hospitality Operations Certificate from the AH and LA.

Department Requirements (34-35 units)
Complete all of the following:
ACCT 110 — Introduction to Accounting ..................4
BUS 103 — Business Mathematics .......................3
CA 113 — Hospitality Sanitation .......................2
CA 117 — Culinary Fundamentals .....................2
CA 121 — Principles of Pantry .......................2
CA 200 — Food Service Practicum ....................2
COMP 101 — Introduction to Computer Applications ....4
HM 290 — Hotel Work Experience ....................3-4

Complete four of the following:
HM 150 — Hospitality Law ................................3
HM 151 — Front Office Operations ....................3
HM 152 — Housekeeping Operations ................3
HM 153 — Food and Beverage Operations ..........3
HM 256 — Supervision in the Hospitality Industry ....3
HM 257 — Hospitality Sales and Marketing ..........3
HM 258 — Security and Loss Management ..........3
HM 259 — Training and Development Skills for Hospitality Professionals ..........3

Skills Competency Award:
Human Resource Hospitality Specialist
Department Requirements (9 units)
HM 256 — Supervision in the Hospitality Industry ..........3
HM 257 — Hospitality Sales and Marketing ..........3
HM 259 — Training and Development Skills for Hospitality Professionals ..........3

Students must complete the above courses with a grade of “C” or higher or credit in all courses.

Skills Competency Award:
Hospitality Operations Specialist
Department Requirements (9 units)
HM 150 — Hospitality Law ................................3
HM 151 — Front Office Operations or
HM 152 — Housekeeping Operations or
HM 153 — Food and Beverage Operations ..........3
HM 258 — Security and Loss Management ..........3

Students must complete the above courses with a grade of “C” or higher or credit in all courses.

Suggested Course of Study: AS Program
Fall Semester — First Year
CA 113 — Hospitality Sanitation and Safety ..........2
One of the four HM elective courses ..........3

Spring Semester — First Year
CA 117 — Culinary Fundamentals .....................2
CA 121 — Principles of Pantry .....................2
One of the four HM elective courses ..........3
Summer Session
HM 290 — Work Experience ...........................................3

Fall Semester — Second Year
COMP 101 — Introduction to Computer Applications ..........4
CA 200 — Food Service Practicum ..................................2
One of the four HM elective courses ................................3

Spring Semester — Second Year
ACCT 110 — Introduction to Accounting .........................4
BUS 103 — Business Mathematics .................................3
One of the four HM elective courses .................................3

Culinary Arts: AS and Certificate Requirements
The Associate Degree is awarded upon completion of both department and college requirements.

College Requirements
For complete information, see "Graduation Requirements" in the Catalog Index.

Department Requirements (53-55 Units)
First Semester
COMP 101 — Introduction to Computer Applications or ....4
COMP 103 — Internet Communications and ...................1
COMP 123 — Introduction to Microsoft Word ...................1
CA 113 — Hospitality Sanitation and Safety .................2
CA 115A — Catering Prep ...........................................0.5
CA 116 — Introduction to the Food Service Profession ....2
CA 117 — Culinary Fundamentals I ..............................2
CA 121 — Principles of Pantry ....................................2
CA 124 — Principles of Baking ....................................2
Total ..................... 12.5-14.5

Second Semester
CA 111 — Hospitality Controls ....................................2
CA 115B — Catering Service ......................................0.5
CA 129 — Purchasing and Receiving .........................2
CA 200 — Culinary Fundamentals II .........................2
CA 217 — Food Service Practicum ..............................2
CA 224 — Pastry Practicum ......................................2
Total ..................... 10.5

Third Semester
CA 115C — Catering Kitchen .....................................0.5
CA 134 — Hospitality Supervision ...............................2
CA 201 — Wines ......................................................2
CA 203 — Restaurant Service and Production .............8
CA 230 — Food Service Nutrition ...............................2
Total ..................... 14.5

Fourth Semester
CA 115D — Catering Organization ..............................0.5
CA 204 — Advanced Restaurant and Culinary ...............4
CA 215 — Modern Food: Style, Design, Theory and Production .................2
CA 261 — Restaurant Ownership ...............................2
Plus two of the following:
CA 211 — Garde Manger .........................................2
CA 214 — Advanced Artisan Bread Baking ..................2
CA 236 — Meat Analysis .........................................2
CA 270 — Advanced Pastry Arts ...............................2
Total ..................... 12.5

Note: All Restaurant/Culinary students must complete 3 units of CA 290, Work Experience, prior to receiving an SCAHM degree or certificate.

Transfer students should see a counselor to determine specific business and GE courses in which to enroll.

Certificate of Achievement Requirements: Students must complete all department requirements for the certificate with a cumulative GPA of 2.0 or better. Candidates for a Certificate of Achievement are required to complete at least 20% of the department requirements through SBCC.

Skills Competency Award: Baking and Pastry

Department Requirements (8 units)
CA 113 — Hospitality Sanitation and Safety ................2
CA 124 — Principles of Baking ..................................2
CA 270 — Advanced Pastry Arts ................................2

Students must complete the above courses with a grade of “C” or higher or credit in all courses.

Skills Competency Training:
Personal Chef Training

Department Requirements (8 units)
CA 113 — Hospitality Sanitation and Safety ................2
CA 117 — Culinary Fundamentals I ............................2
CA 124 — Principles of Baking ..................................2
CA 201 — Wines ......................................................2

Students must complete the above courses with a grade of “C” or higher or credit in all courses.

Program Cost and Outcome
For planning purposes, the webpages below provide information on the cost of attendance, program length
(assuming a student attends full time), financing options and historical student completion rates:

Culinary Arts
www.sbcc.edu/financialaid/gainfulemployment/
Culinary%20Arts.htm

Hotel Management
www.sbcc.edu/financialaid/gainfulemployment/
Hospitality.htm

Culinary Arts Courses

CA 111 — Hospitality Controls
(2) — CSU
Skills Advisories: Eligibility for ENG 98 and 103;
proficiency in MATH 4
Hours: 36 lecture
Covers industry practices and procedures of controls in
cash, inventory, employees, time, sanitation, purveyors
and equipment.

CA 113 — Hospitality Sanitation and Safety
(2) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 36 lecture
How to effectively manage sanitation to achieve high
standards as set forth by the laws and regulations
covering the food industry in the United States. In-depth
study of management’s responsibility in sanitation.
Safety procedures and practices are also covered.

CA 115A — Catering Prep
(0.5) — CSU
Corequisites: CA 113 with a minimum grade of “C”
Skills Advisories: MATH 95 and Eligibility for ENG 110
or 110H
Limitation on Enrollment: Completion of departmental
enrollment procedures.
Hours: 27 lecture
Structured on-the-job experience in preparing for
various campus catering functions.

CA 115B — Catering Service
(0.5) — CSU
Prerequisites: CA 115A
Hours: 27 lecture
Structured on-the-job experience in serving campus
catering functions. Students cook and serve breakfast,
lunch and/or dinner catered events.

CA 115C — Catering Kitchen
(0.5) — CSU
Prerequisites: CA 115B with a minimum grade of “C”
Hours: 27 lecture
Structured on-the-job experience in cooking for various
campus catering functions.

CA 115D — Catering Organization
(0.5) — CSU
Prerequisites: CA 111, 115C and 129
Hours: 27 lecture
Structured on-the-job experience in organizing various
campus catering functions.

CA 116 — Introduction to the
Food Service Profession
(2) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Limitation on Enrollment: Completion of departmental
enrollment procedures.
Hours: 36 lecture
Introduction to culinary arts and related food service
occupations. Describes the history of food and the
development of cuisine. The evolution of cuisine from
classical to California fusion.

CA 117 — Culinary Fundamentals I
(2) — CSU
Corequisite: CA 113
Skills Advisories: MATH 95 and Eligibility for ENG 110
or 110H or 110GB
Limitation on Enrollment: Completion of departmental
enrollment procedures.
Hours: 72 (18 lecture, 54 lab)
Introduction to the professional kitchen. Emphasis
on classical cooking and current scientific theories
provides the student with a solid understanding of
food chemistry and cooking techniques. Study of
equipment, ingredients and basic cooking methods of
the modern professional kitchen. Hands-on application
of theory and techniques.
CA 121 — Principles of Pantry
(2) — CSU
Skills Advisories: MATH 95 and Eligibility for ENG 110 or 110H
Limitation on Enrollment: Completion of departmental enrollment procedures.
Hours: 72 (18 lecture, 54 lab)
Introduction to the basic skills needed for a restaurant pantry station. The theory and practical skills required to produce quality salads, sandwiches and cold sauce emphasized.

CA 124 — Principles of Baking
(2) — CSU
Corequisites: CA 113
Skills Advisories: Eligibility for ENG 98 and 103
Limitation on Enrollment: Completion of departmental enrollment procedures.
Hours: 72 (18 lecture, 54 lab)
Introduction to the basic skills needed for a professional bake shop. The theory and practical skills required to produce quality pastries and breads emphasized.

CA 129 — Purchasing and Receiving
(2) — CSU
Prerequisites: CA 113 and 116
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 36 lecture
How to develop and implement effective purchasing and storeroom procedures. Focus is on purveyor relations, inventory controls, receiving and storage of goods. Includes major categories of purchases.

CA 134 — Hospitality Supervision
(2) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Limitation on Enrollment: Admission to Program
Hours: 36 lecture
Designed to provide students with the principles of supervision as they apply specifically to the hospitality industry.

CA 200 — Food Service Practicum
(2) — CSU
Prerequisites: CA 113 and 117
Hours: 108 lab
Hands-on lab experience in a working kitchen. The acquisition and practice of basic skills needed.

Practical techniques required to produce quality soups, sauces, entrees, starches and vegetables emphasized.

CA 201 — Wines
(2) — CSU
Skills Advisories: MATH 95 and Eligibility for ENG 110 or 110H
Limitation on Enrollment: Health and Safety regulations. Students must be 21 years of age to participate in wine tasting
Hours: 36 lecture
Identification of wines from the wine districts of France, Germany and Italy. Characteristics of wines from the major wine varietals emphasized and the process of wine-making presented.

CA 202A — The Wines of Italy
(2) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Course Advisories: CA 201
Limitation on Enrollment: Health and Safety regulations. Students must be 21 years of age to participate in wine tasting
Hours: 36 lecture
In-depth study of the wines of Italy, covering the regions, grape varieties, history and laws of Italian wine production.

CA 202B — Wines of Bordeaux and Burgundy
(2) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Course Advisories: CA 201
Limitation on Enrollment: Health and Safety regulations. Students must be 21 years of age to participate in wine tasting
Hours: 36 lecture
In-depth study of the wines of Bordeaux and Burgundy, covering the regions, grape varieties, history and laws of French wine production.

CA 202C — Wines of France
(2) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Course Advisories: CA 201
Limitation on Enrollment: Health and Safety regulations. Students must be 21 years of age to participate in wine tasting
Hours: 36 lecture
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
<th>Prerequisites</th>
<th>Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA 202D</td>
<td>Wines of California</td>
<td>(2)</td>
<td>CSU</td>
<td>In-depth study of the wines of France, outside of Bordeaux and Burgundy, covering the regions, grape varieties, history and laws of French wine production.</td>
</tr>
<tr>
<td>CA 202E</td>
<td>Wines of Spain and Portugal</td>
<td>(2)</td>
<td>CSU</td>
<td>In-depth study of the top AVAs of California, focusing on six major grape varietals and discovering why they are known for the wines made from these varietals.</td>
</tr>
<tr>
<td>CA 203</td>
<td>Restaurant Service and Production</td>
<td>(8)</td>
<td>CSU</td>
<td>In-depth study of Spain and Portugal’s wines. Focusing on the major influences on wine and viticulture: Climate, cuisine, history and culture of the Iberian peninsula.</td>
</tr>
<tr>
<td>CA 204</td>
<td>Advanced Restaurant and Culinary</td>
<td>(4)</td>
<td>CSU</td>
<td>Designed to further acquaint students with advanced cooking and service techniques. Advanced techniques of cooking, sauce and stock making, roasting, braising, sauteing, etc. stressed. Students apply techniques to classical and modern cooking and service styles in the Gourmet Dining Room.</td>
</tr>
<tr>
<td>CA 211</td>
<td>Garde Manger</td>
<td>(2)</td>
<td>CSU</td>
<td>Designed to impart the skills and knowledge to work in a professional garde manger department. Techniques and procedures for making and displaying pates, terrines, galantines, mousses, sausages, salads and garnishes demonstrated; opportunities for hands-on work are offered. Advanced decorative techniques, such as ice-carving, demonstrated.</td>
</tr>
<tr>
<td>CA 214</td>
<td>Advanced Artisan Bread Baking</td>
<td>(2)</td>
<td>CSU</td>
<td>Advanced techniques of traditional and contemporary bread baking are demonstrated and practiced. The properties of different flours, grains, yeasts, sponges and levaines are demonstrated. The student produces various European breads, sourdoughs, Danish and croissant doughs and flat breads in a professional bake shop operation.</td>
</tr>
<tr>
<td>CA 215</td>
<td>Modern Food: Style, Design Theory and Production</td>
<td>(2)</td>
<td>CSU</td>
<td>Study and practice of modern food design. The different styles of Fusion, Californian, Pacific-Rim, Tex-Mex, Nouvelle and others are demonstrated and practiced. Modern trends and corresponding plate design theories demonstrated and practiced. The effects of different cultures and food diversity on the modern restaurant kitchen are explored.</td>
</tr>
<tr>
<td>CA 217</td>
<td>Culinary Fundamentals II</td>
<td>(2)</td>
<td>CSU</td>
<td>Advanced theory in food science, culinary techniques and modern cooking styles. Advanced sauce making, wild game cooking, and meat, poultry, fish and shellfish cooking techniques emphasized. The philosophy of food explored.</td>
</tr>
</tbody>
</table>
CA 224 — Pastry Practicum  
(2) — CSU  
Prerequisites: CA 113 and 124  
Hours: 108 lab  
Hands-on lab experience in a professional bake shop. The acquisition and practice of basic skills needed. Practical techniques required to produce quality pastries and breads emphasized.

CA 226 — Contemporary Baking  
(2) — CSU  
Hours: (18 lecture, 54 lab)  
Hands-on experience with modern baking techniques, including practical experience with gluten-free baking and vegan baking.

CA 230 — Food Service/Nutrition  
(2) — CSU  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 36 lecture  
Designed to instruct students in the principles of nutrition and their application to personal lifestyle, diet and a professional kitchen. Students are shown how these nutrition principles relate to the food service industry through an analysis of marketing, food trends, menu design and recipe modification.

CA 233 — Healthy Cafeteria Nutrition  
(1) — CSU  
Hours: 18 lecture  
Designed to instruct students in the principles of nutrition and their application to a K-12 cafeteria kitchen.

CA 236 — Meat Analysis  
(2) — CSU  
Prerequisites: CA 113 and 217  
Skills Advisories: MATH 95 and Eligibility for ENG 110 or 110H  
Hours: 72 (18 lecture, 54 lab)  
Cuts, grades and usage of meats are discussed. Pork, veal, beef, lamb and poultry are cut into the standard cuts set by the industry. Costs of different types of meat are covered.

CA 241 — Farmers and Chefs  
(2) — CSU  
Prerequisites: CA 116 and 117  
Hours: 54 (27 lecture, 27 lab)  
Study of the relationship between farm and kitchen. Examines the effects the seasons, market forces, transportation and the farmer have on raw ingredients, their quality, quantity and availability to the chef. Also covers the effects the chef, food trends, environmental and social issues have on what is produced by the farmer.

CA 241A — Foods of Italy  
(2) — CSU  
Hours: 36 lecture  
In-depth study of the foods of Italy, covering the regions, culture and history of Italian food production and usage.

CA 241B — The Cuisine of France  
(2) — CSU  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 36 lecture  
In-depth study of the foods of France, covering the regions, culture and history of French food production and usage.

CA 261 — Restaurant Ownership  
(2) — CSU  
Prerequisites: CA 111 and 129  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 36 lecture  
Planning and operation of a food service establishment, an in-depth look at the creation and implementation of a feasibility study, devising a mission statement, using and understanding demographic research, site selection, creating capital, preparing a financial statement, creating a menu, devising a plan for staffing, and day-to-day operations management.

CA 266 — Fundamentals of Responsible Alcohol Service  
(0.5) — CSU  
Hours: 9 lecture  
Provides the needed legal, regulatory and medical information for the service of alcohol in a responsible manner.
CA 270 — Advanced Pastry Arts
(2) — CSU
Prerequisites: CA 113 and 124
Hours: 72 (18 lecture, 54 lab)
Advanced techniques of classical and modern pastry preparation demonstrated and practiced. Emphasis on professional bake shop operations. Cakes, pastries, meringues, chocolates and sauces created and displayed, utilizing different theories of plate design.

CA 290 — Work Experience for Culinary Arts Students
(3) — CSU
Prerequisites: CA 116
Limitation on Enrollment: Successful completion of all first-semester Culinary Arts courses. Student must be a Culinary Arts major and be enrolled in classes leading to a degree or certificate in the major. May be taken for three or four units of credit. One unit of credit is earned for each five hours weekly of work. Maximum of four units can be taken each term.
Skills Advisories: MATH 95 and Eligibility for ENG 110 or 110H
Hours: 225 lab
Work experience on a job or project directly related to hotel, restaurant or culinary majors enabling the student to acquire skills and attitudes necessary to enter and/or progress in a hotel, restaurant or culinary occupation.

Hotel Management Courses
HM 150 — Hospitality Law
(3) — CSU
Skills Advisories: MATH 4 and Eligibility for ENG 98
Hours: 54 lecture
Students learn to apply hospitality law to everyday issues at their worksite, including regulating hotel responsibilities to guests, guest rights, hotel facility regulations and employee rights.

HM 151 — Front Office Operations
(3) — CSU
Skills Advisories: MATH 4 and Eligibility for ENG 98
Hours: 54 lecture
Competencies necessary to successfully supervise hotel front office operations. Understanding and practical application of front office operations, including reservations, registration, checkout, settlement, security, accounting and audits.

HM 152 — Housekeeping Operations
(3) — CSU
Skills Advisories: Eligibility for ENG 98, Proficiency in MATH 44
Hours: 54 lecture
Competencies necessary to successfully supervise housekeeping operations. Responsibilities of housekeeping department in relation to other departments and the skills to supervise the housekeeping and laundry staff.

HM 153 — Food and Beverage Operations
(3) — CSU
Skills Advisories: MATH 4 and Eligibility for ENG 98
Hours: 54 lecture
Provides the skills necessary to supervise a hotel food and beverage department. Understanding department responsibilities and staff supervision issues in addition to a variety of food and beverage operations, including pricing, controls, marketing and financial management. Mastery of menu planning and serving and preparing foods using safe and sanitary procedures.

HM 256 — Supervision in the Hospitality Industry
(3) — CSU
Skills Advisories: MATH 4 and Eligibility for ENG 98
Hours: 54 lecture
Provides the competencies necessary to supervise in the hospitality industry. Practicing a wide range of supervisory skills, such as effective communication, training, coaching, evaluating, disciplining and managing conflict. Understanding the techniques for managing productivity and change.

HM 257 — Hospitality Sales and Marketing
(3) — CSU
Skills Advisories: MATH 4 and Eligibility for ENG 98
Hours: 54 lecture
Through study and practical application in a hospitality setting, students learn to apply effective sales and customer service techniques through the understanding of service encounters, guest behavior, data, pricing strategies, selling and entrepreneurship.
HM 258 — Security and Loss Management
(3) — CSU
Skills Advisories: MATH 4 and Eligibility for ENG 98
Hours: 54 lecture
Provides the competencies necessary to understand hospitality security systems and to implement appropriate security procedures. Practice of strategies to address hospitality security concerns and emergency situations.

HM 259 — Training and Development Skills for Hospitality Professionals
(3) — CSU
Skills Advisories: MATH 4 and Eligibility for ENG 98
Hours: 54 lecture
Provides the competencies necessary to develop hospitality staff members through effective coaching, mentoring, evaluating and training. Includes assessing development needs, mentoring, instructional design, and assessing training and development initiatives in the hospitality industry.

HM 290 — Hotel Work Experience
(3-4) — CSU
Skills Advisories: MATH 95 and Eligibility for ENG 110 or 110H
Limitation on Enrollment: Student must be a SCAHM major and be enrolled in classes leading to a degree or certificate in the major. May be taken for three units of credit. One unit of credit is earned for each five hours of work each week. Maximum of three units can be taken each term.
Hours: 180-300 lab
Consists of 225-300 hours of work in hotel employment. Supervised employment of students with the intent of creating student awareness of hospitality management employment opportunities. Students perform assigned responsibilities as an employee, follow employer’s policies, and write individual learning objectives.

HM 295 — Internship in Hotel Management/ Culinary Arts
(2-4) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Limitation on Enrollment: Completion of second-semester Hotel Management courses.
Hours: 228-273 lab
Five to 10 hours weekly, on-the-job experience.
Structured Internship program in which students gain experience with community organizations related to the discipline.
Disabled Student Programs and Services (DSPS)
dspshelp@sbcc.edu or ext. 2364 (Voice)
(Also see DSPS under “Student Services.”)

Disabled Student Programs and Services provides educational support services and reasonable accommodations for students with verified disabilities who are enrolled in courses at SBCC. In addition, the following courses are being offered.

Department Offices
Ben Partee, Dean (SS-260, ext. 2237)

Faculty and Offices
Jana Garnett, Director (SS-160A)
Clark Hochstetler, Counselor (SS-160C)
Michelle Britton Bass, Counselor (SS-160C)
Linda Beers, Learning Disabilities Specialist (SS-270C)
Janet Hose, Learning Disabilities Specialist (SS-160B)
Lesley-Anne Taylor, Learning Disabilities Specialist (SS-270D)
Laurie Vasquez, Assistive Technologies Specialist (SS-270A)

Course Descriptions
DSPS 066 — Math Strategies
(2)
Hours: 32-36 lecture
Designed for students with disabilities who are enrolled in mainstream college math classes and whose disabilities result in educational limitations in the area of math. Students learn a variety of strategies to promote self-monitoring, organization, study skills and test-taking techniques relative to math concepts and computation. Graded Pass/No Pass.

DSPS 077 — Writing/Reading Strategies
(2)
Hours: 36 lecture
Designed for students with disabilities but is open to all students who are enrolled in an academic course. Students learn a variety of multisensory approaches to writing and reading in order to improve their management of the written language. Graded Pass/No Pass.
Drafting/CAD

Degree and Certificate
Associate in Science Degree: Drafting/CAD
Certificate of Achievement: Drafting/CAD

Program Description
The 21st century is witnessing a rapid growth in science, engineering and technology. This will require society to read, write and draw the language of technology—drafting.

Drafting is used in a wide variety of business, industrial, professional and governmental activities, including the following:
- Anthropology
- Archeology
- Architecture
- Art—Design
- Automotive Services
- Computer Drafting
- Computer Science
- Electronics
- Engineering
- Environmental Studies
- Geology/Geography
- Graphics—Design
- Industrial Technology
- Interior Design
- Landscape Architecture
- Landscape Horticulture
- Machine Shop/Welding
- Mapping
- Marine Diving Technology
- Mathematics—Applied
- Mechanical/Elect. Systems
- Physics—Applied
- Surveying
- Technical Illustration

Santa Barbara City College’s Drafting/CAD Department offers comprehensive training for entry-level positions. California certificated and professionally experienced instructors teach all departmental courses, with heavy emphasis on the laboratory use of modern drafting equipment.

Full college credit is granted for each course successfully completed. Students who complete the 31.0 units of required Drafting/CAD courses and the controlled electives earn a Certificate of Achievement in Drafting/CAD. Those who also complete institutional and General Education course requirements earn the Associate in Science Degree in Drafting/CAD. The department offers all courses with an open-door policy—both for majors and non-majors.

Program Student Learning Outcomes
1. Ability to prepare and understand technical drawings.
2. Ability to use computer software to generate technical drawings.
3. Obtain occupational knowledge and skills related to drafting.
4. Understand methods, materials and technical skills related to design and construction.

Department Offices
Armando M. Arias del Cid, Chair (OE-24, ext. 2436)
Alan Price, Dean (A-218, ext. 3044)

Faculty and Offices
Armando M. Arias del Cid, Chair (OE-24, ext. 2436)
Laura Welby (OE-16A, ext. 2522)

Certificate of Achievement Requirements:
Drafting/CAD
(See Sample Program)

Department Requirements (31 units)
- DRFT 101 — Basic Drafting..................................................3
- DRFT 130 — Computer-Assisted Draft and Design I..............5
- DRFT 131 — Computer-Assisted Draft and Design II...........5

Plus 15 units of Drafting electives selected from the following:
- DRFT 120 — Architectural Drafting I................................3
- DRFT 121 — Architectural Drafting II..............................3
- DRFT 124 — Architectural Rendering I............................3
- DRFT 125 — Architectural Rendering II..........................3
- DRFT 126 — Landscape Drafting I or EH 126 — Landscape Drafting I...............................3
- DRFT 127 — Landscape Drafting II or EH 127 — Landscape Drafting II..........................3
- DRFT 129 — Principles of Residential Construction...........3
- DRFT 132 — Comp-Assist Draft and Design III...............5
- DRFT 290 — Work Experience in Drafting.........................1-4
- DRFT 299 — Independent Study Drafting........................1-4
- ENGR 105 — Engineering Graphics..................................4
- MAT 136 — Computer Animation I.................................3
- MAT 137 — Visual Effects for Film, TV and Gaming...........3
- MAT 138 — 3D Character Animation...............................3
Plus 3 units of controlled electives selected from the following:
ENGR 115 — Statics and Strength of Materials .........................4
ENGR 117 — Electronic Circuits ........................................3
ENGR 117L — Electronic Circuits, Lab ................................1
+ENGR 140 will also satisfy this requirement.
Note: Up to 16 of the 18 units of electives required may be DRFT 290 Work Experience in Drafting.
Students must complete all department requirements for the certificate with a cumulative GPA of 2.0 or better.

AS Degree Requirements: Drafting/CAD
An Associate in Science Degree in Drafting/CAD can be obtained by satisfying the Certificate of Achievement in Drafting/CAD requirements and the General Education and institutional requirements for the Associate in Science Degree. See “Graduation Requirements” in the Catalog Index.

Planning a Program of Study
Students are advised to see a college counselor and the Department Chairperson in planning a program of study. Many factors need to be considered in the plan, including:
1. Academic goals, i.e., bachelor’s degree, associate degree, or certificate programs.
2. Career and occupational goals, i.e., professional, paraprofessional, technical, occupational, or trade.
3. Program majors, such as Architecture, Engineering, Computer Science, Graphic Design, Electronic/Computer Technology and others.
4. The Drafting/CAD Department advises the student to make the choice between pursuing Architectural Drafting or Mechanical Drafting early in his/her education.

Note: Students who have completed the Certificate of Completion requirements can continue on to the Associate in Science Degree by satisfying General Education and SBCC requirements for the AS Degree.

Honors and Awards
The Drafting/CAD Department selects one student each year as “Outstanding Student.” Selections are made by the department faculty and are based on academic achievement and service to the college.

Tutorial Opportunities
Each semester, the Drafting/CAD Department is allocated funds to hire student tutors. Students who have performed well in a course and who demonstrate interest in teaching are selected by the department to tutor students currently enrolled in courses. The purpose of this program is two-fold. Students currently taking courses receive excellent peer tutoring and tutors learn the techniques of teaching. Tutors also find that to teach is to learn.

Special Department Resources
A wide range of resources is available to all students enrolled in the Drafting/CAD Program. Students have access to exceptionally well-equipped laboratories with modern drafting furniture, computers, machines and supplies. Blueprinting facilities are available. Light tables and special mapping tables are available in the Drafting laboratory. A CAD (Computer-Assisted Drafting) laboratory is the department’s latest modern facility addition.

The department sponsors several events, programs and services to help the student become better acquainted with the professional world of drafting. These include seminars, guest lectures, films, internships and work experience liaison with area employers.

Advising
In addition to the college counselor for the Drafting/CAD Department and the Career Center, the Department Chairperson advises students who are planning academic, professional or occupational programs and investigating career goals. Contact, Armando M. Arias del Cid, OE-24, (805) 965-0581, ext. 2436.

Program Cost and Outcome
For planning purposes, the webpage below provides information on the cost of attendance, program length (assuming a student attends full-time), financing options and historical student completion rates:
www sbcc edu financialaid/gainfulemployment/ Drafting%20CAD.htm
Drafting/CAD Courses

DRFT 101 — Basic Drafting
(3) — CSU, UC
Skills Advisories: MATH 1 and Eligibility for ENG 103
Hours: 72 (45 lecture, 27 lab)
Fundamental concepts of technical drafting. Topics include drafting standards and conventions; multiview orthographic projections; non-perspective pictorial views; planning, elevation and section views; manual and computer-aided drafting tools; and annotations. Emphasis placed on architectural and engineering technical drafting.

DRFT 120 — Architectural Drafting I
(3) — CSU, UC
Skills Advisories: MATH 1 and Eligibility for ENG 103
Hours: 72 (45 lecture, 27 lab)
Fundamental concepts in architectural drafting. Topics include architectural drafting standards and conventions, multiview orthographic projections, floor plan, elevation and section views, manual and computer-aided drafting tools, output and delivery methods.

DRFT 121 — Architectural Drafting II
(3) — CSU, UC
Prerequisites: DRFT 120 with a minimum grade of “C”
Skills Advisories: MATH 1 and Eligibility for ENG 103
Hours: 72 (45 lecture, 27 lab)
Topics include drafting standards, conventions, CAD standards, MasterFormat and construction documents. Emphasis in project deliverables includes cover sheet, site plan, floor plans, roof plan, elevations, sections, wall sections, schedules, interior elevations, details, manual and computer-aided drafting tools and output/delivery methods.

DRFT 124 — Architectural Rendering I
(3) — CSU, UC
Skills Advisories: MATH 1 and Eligibility for ENG 103
Hours: 72 (45 lecture, 27 lab)
Fundamentals of architectural rendering using manual and computer-aided drafting tools, including interior and exterior one/two-point perspectives, oblique, and isometric drawings. Rendering techniques include surfaces, textures, shades, shadows, figures and foliage. Emphasis on compiling a portfolio of architectural presentation drawings.

DRFT 125 — Architectural Rendering II
(3) — CSU, UC
Prerequisites: DRFT 124 with a minimum grade of “C”
Skills Advisories: MATH 1 and Eligibility for ENG 103
Hours: 72 (45 lecture, 27 lab)
Advanced architectural rendering, using manual and computer-aided drafting tools, including presentation drawings, two-point perspectives, oblique and isometric drawings. Rendering techniques include surfaces and textures, shades and shadow, figures and foliage. Emphasis on compiling a portfolio of architectural presentation drawings.

DRFT 126/EH 126 — Landscape Drafting I
(3) — CSU, UC
Skills Advisories: MATH 1 and Eligibility for ENG 103
Hours: 72 (45 lecture, 27 lab)
Principles of drafting and plan reading for landscape architecture and ornamental horticulture. Style research, drafting of plans, elevations and details.

DRFT 127/EH 127 — Landscape Drafting II
(3) — CSU, UC
Prerequisites: EH 126 with a minimum grade of “C” or DRFT 126 with a minimum grade of “C”
Skills Advisories: MATH 1 and Eligibility for ENG 103
Hours: 72 (45 lecture, 27 lab)
Advanced drafting and plan reading, using manual and computer drafting tools, for landscape architecture and ornamental horticulture fields. Includes site plans, elevations and details.

DRFT 129 — Principles of Residential Construction
(3) — CSU
Skills Advisories: MATH 1 and Eligibility for ENG 103
Hours: 54 lecture
Overview of residential construction for homeowners, remodelers, drafters and designers. Topics include building codes, materials, grading, foundations, framing, mechanical systems, doors and windows, roofing and drywalling.
DRFT 130 — Computer-Assisted Drafting and Design I  
(5) — CSU, UC*  
Prerequisites: DRFT 101 with a minimum grade of “C” or DRFT 120 with a minimum grade of “C” or DRFT 126 with a minimum grade of “C”  
Skills Advisories: MATH 1 and Eligibility for ENG 103  
Hours: 126 (72 lecture, 54 lab)  
Intermediate AutoCAD: Set-up, drafting, editing, output and delivery. Coverage of latest AutoCAD features.  
(*UC transfer limit: DRFT 130, 131 and 132 combined: maximum credit, one course).

DRFT 131 — Computer-Assisted Drafting and Design II  
(5) — CSU, UC*  
Prerequisites: DRFT 130 with a minimum grade of “C”  
Skills Advisories: MATH 1 and Eligibility for ENG 103  
Hours: 126 (72 lecture, 54 lab)  
Advanced AutoCAD: File Management and CAD Standards for Project-Driven Productivity, 3D Modeling.  
(*UC transfer limit: DRFT 130, DRFT 131 and 132 combined: maximum credit, one course)

DRFT 132 — Computer-Assisted Drafting and Design III  
(5) — CSU, UC*  
Skills Advisories: MATH 1 and Eligibility for ENG 103  
Course Advisories: DRFT 129  
Hours: 126 (72 lecture, 54 lab)  
Introduction to Autodesk Revit©. Designed to meet the needs of students who want to learn the basics of industry-standard building information modeling software.  
(*UC transfer limit: DRFT 130, 131 and 132 combined: maximum credit, one course)

DRFT 142 — Product Design Fundamentals  
(3) — CSU  
Skills Advisories: MATH 1 and Eligibility for ENG 103  
Hours: 72 (45 lecture, 27 lab)  
In this product design studio, students are introduced to the process of product design and develop the skills necessary for bringing design ideas to fruition. They explore product design practice as the intersection of creativity, critical thinking and practical application in commerce, and learn to approach designed objects as challenges to meet human needs.

DRFT 143 — Product Design and Rapid Prototyping Workshop  
(3) — CSU  
Prerequisites: DRFT 142  
Skills Advisories: MATH 1 and Eligibility for ENG 103  
Hours: 72 (45 lecture, 27 lab)  
Students turn their design concepts into physical objects through hands-on experience in the complete cycles of product design applied to small-scale additive manufacturing. Tailored to expose students to selected software used for product design and visualization, with emphasis on 3D modeling applications with capabilities, features, and support for rapid prototyping with 3D printers.

DRFT 146 — 3D Printing Fundamentals  
(3) — CSU  
Skills Advisories: Eligibility for ENG 103 and proficiency in MATH 1  
Hours: 72 (45 lecture, 27 lab)  
Fundamentals of 3D printing. Topics include history of 3D printing, the present state of rapid prototyping, the future of rapid prototyping, best practices, materials for additive manufacturing, and the business side of additive manufacturing. Identifying sources for 3D printing. Operation, servicing and maintenance of 3D printers. Legal aspects and ramifications of rapid prototyping.

DRFT 148 — 3D Modeling with Solid Works  
(3) — CSU  
Skills Advisories: Eligibility for ENG 103 and proficiency in MATH 1  
Hours: 72 (45 lecture, 27 lab)  
3D modeling with Solid Works and ProE.

DRFT 290 — Work Experience in Drafting  
(1-4) — CSU  
Limitation on Enrollment: (1) Employed or available for employment in an occupation directly related to the Drafting major; and (2) Must be enrolled in no less than seven (7) units, including Work Experience.  
Hours: 60-300 lab  
(1) Available for employment in an occupation related to Drafting and (2) must be enrolled in no less than seven (7) units. May be taken for 1, 2, 3 or 4 units of credit. Maximum (4) units per semester for a maximum of (16) units.
DRFT 299 — Independent Study in Drafting  
(1-4) — CSU  
Limitation on Enrollment: Completion of a minimum of 12 units at SBCC, with a 2.5 GPA, and a minimum of 6 (six) units completed in Drafting.  
Skills Advisories: MATH 1 and Eligibility for ENG 103  
Hours: 48-192 lab  
Provides students with an opportunity to engage in Independent Study in Drafting. Students work under direction of sponsoring faculty member on a project directly related to drafting.
Early Childhood Education

Degrees and Certificates
Associate in Science Degree:
  Early Childhood Education
Associate in Science Degree (AS-T):
  Early Childhood Education for Transfer
Certificate of Achievement: Early Childhood Education
Certificate of Achievement: Diversity Issues in ECE
Certificate of Achievement: Infant/Toddler Development
Certificate of Achievement: School-Age Care
Certificate of Achievement: Associate Child Care Teacher

Program Description
The Early Childhood Education Degree Program at Santa Barbara City College centers around the continuing experience of supervised teaching, combined with intensive classroom instruction. Basic principles of early childhood education and child development, including curriculum for preschools, school age programs and care-giving for infant centers, are introduced. In-depth study of observation, assessment, health, safety and nutrition are also introduced.

Throughout, there is considerable emphasis placed on developing professional interaction styles consistent with fostering positive staff relationships, communication and collaboration with parents, knowledge of community resources, and multicultural awareness of the diverse populations with whom the student will work.

Student teaching is carried out in two laboratory programs. Both laboratory programs, one for preschool children and one for infants and toddlers, are located at Orfalea Early Learning Center, 365 Loma Alta, near the college’s main campus. Other opportunities for student teaching in a variety of community settings are available after meeting additional criteria. Upon completion of the program and depending on demonstrated ability, the student is qualified to work as an associate teacher or teacher in almost any child development program in California. Additional courses are available to meet the requirements for director or site supervisor positions.

The ECE Program is coordinated with the child development major offered by several state universities which dovetails, in turn, with undergraduate and graduate work leading to advanced degrees in Early Childhood Education.

Many students find that teaching at this level is a deeply satisfying occupation, which, when done well, contributes substantially to the healthy growth of young children and their families. The field continues to be an expanding one and many jobs for qualified people exist in Santa Barbara, California, and throughout the nation.

Information about the program or about course sequence or selection can be obtained by contacting the faculty listed on the next page of this Catalog.

Program Student Learning Outcomes
1. Discuss the diverse needs, characteristics and multiple influences on the development of children, birth through age eight, as related to high quality care and education.
2. Using observation skills, design, implement and evaluate environments and curriculum activities that support positive, developmental play and learning for all young children.
3. Identify and implement effective guidance and interaction strategies that support all children’s social learning, identity and self-confidence.
4. Develop and implement strategies that promote partnerships between programs, teachers, families, and their diverse communities.
5. Recognize ethical standards and demonstrate professional behaviors that deepen understanding, knowledge and commitment to the Early Childhood Education profession.
6. Apply written and verbal communication skills and research practices to discuss relevant and accurate information related to General Education courses.

Associate Child Care Teacher Certificate
1. Discuss the diverse needs, characteristics and multiple influences on the development of children, birth through age eight, as related to high quality care and education.
2. Using observation skills, design, implement and evaluate environments and curriculum activities that support positive, developmental play and learning for all young children.
3. Identify and implement effective guidance and interaction strategies that support all children’s social learning, identity and self-confidence.
4. Recognize ethical standards and demonstrate professional behaviors that deepen understanding, knowledge and commitment to the Early Childhood Education profession.

**Early Childhood Education Certificate**

1. Discuss the diverse needs, characteristics and multiple influences on the development of children, birth through age eight, as related to high quality care and education.
2. Using observation skills, design, implement and evaluate environments and curriculum activities that support positive, developmental play and learning for all young children.
3. Identify and implement effective guidance and interaction strategies that support all children’s social learning, identity and self-confidence.
4. Develop and implement strategies that promote partnerships between programs, teachers, families and their diverse communities.
5. Recognize ethical standards and demonstrate professional behaviors that deepen understanding, knowledge and commitment to the Early Childhood Education profession.

**Faculty and Offices**

Julie Smith, Chair (ECOC-2/2)
(805) 965-0581, ext. 2859; Smithj@sbcc.edu

Devona Hawkins

Dr. Kelly O. Lake (ECOC-2/1)
(805) 965-0581, ext. 2290; Lake@sbcc.edu

**AS Degree in Early Childhood Education**

**Department Requirements (28 units)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>ECE 102</td>
<td>Child, Family and Community</td>
<td>3</td>
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<tr>
<td>ECE 103</td>
<td>Foundations of ECE I</td>
<td>5</td>
</tr>
<tr>
<td>ECE 104</td>
<td>Foundations of ECE II</td>
<td>5</td>
</tr>
<tr>
<td>ECE 108</td>
<td>Creative Learning and Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>ECE 120</td>
<td>Child Growth and Develop. for Educators or</td>
<td></td>
</tr>
<tr>
<td>PSY 140</td>
<td>Child Development</td>
<td>3</td>
</tr>
<tr>
<td>ECE 121</td>
<td>Health, Safety and Nutrition Young Child</td>
<td>3</td>
</tr>
<tr>
<td>ECE 128</td>
<td>Observation and Assessment</td>
<td>3</td>
</tr>
<tr>
<td>ECE 132</td>
<td>Teaching a Diverse Society</td>
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**Recommended Support Courses:**

<table>
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<tr>
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<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>BIOL 100</td>
<td>Concepts of Biology</td>
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</tr>
<tr>
<td>COMP 101</td>
<td>Intro to Computer Applications</td>
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</tbody>
</table>

**Certificate of Achievement:**

**Early Childhood Education**

**Department Requirements (28 units)**

Students will qualify for an Early Childhood Education Program Certificate when they have successfully completed the following courses:

<table>
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<td>3</td>
</tr>
<tr>
<td>ECE 121</td>
<td>Health, Safety, Nutrition for Young Children</td>
<td>3</td>
</tr>
</tbody>
</table>

**College Requirements**

For complete information, see “Graduation Requirements” in the Catalog Index.

**Conditions of Enrollment**

If, at any time, the ECE Department Chair, in consultation with ECE faculty and staff, determines the student’s conduct or physical or emotional health is a potential threat to the well-being of children and/or their families, appropriate intervention (which may include dismissal from the program) shall take place.

For the lab courses, ECE 103 and 104, a fingerprint clearance and a TB clearance are required. TB skin tests are available to students for free at the Health and Wellness Office. Call extension 2298 to request details about testing. Information regarding the fingerprint clearance can be obtained from the Laboratory Teaching Assistant at extension 2554.

Progression through and completion of this program requires the attainment of a minimum grade of “C” in each required and elective course in the ECE major.
ECE 128 — Observation and Assessment .......................... 3  
ECE 132 — Teaching in a Diverse Society .......................... 3  

Recommended Support Courses:  
BIOL 100 — Concepts of Biology ................................. 4  
COMP 101 — Intro to Computer Applications ....................... 4  
HIST 101 — History of the U.S. to 1865 .......................... 3  
HIST 107 — World Civilization, Beg-1550 ......................... 3  
PHSC 103 — The Physical Universe ................................. 4  
POLS 101 — American Govt and Politics .......................... 3  

One semester of a foreign language is also recommended.  

Note: Forty-five half-days of student teaching in an ECE  
Department-approved site is required. Students must  
complete each required course with a grade of “C” or better.  

Certificate of Achievement:  
Diversity Issues in ECE  
Exceptional career opportunities for teachers and  
associate teachers in bilingual/bicultural early  
childhood settings are increasing with the state’s  
growing diversity. This certificate can be earned  
concurrently with the Early Childhood Education  
certificate. See Department Chair for details.  

Department Requirements (34 units)  
Students will qualify for the Diversity Issues in  
ECE Certificate of Achievement when they have  
successfully completed the following courses:  
ECE 102 — Child, Family and Community ......................... 3  
ECE 103 — Foundations of ECE I .................................. 5  
ECE 104 — Foundations of ECE II .................................. 5  
ECE 108 — Creative Learning and Curriculum ..................... 3  
ECE 120 — Child Growth/Development for Educators or  
PSY 140 — Child Development .................................. 3  
ECE 121 — Health, Safety, Nutrition for Young Children ...... 3  
ECE 128 — Observation and Assessment .......................... 3  
ECE 132 — Teaching in a Diverse Society .......................... 3  
ECE 141 — Development and Caregiving of  
Infants and Toddlers ............................................. 3  
ECE 142 — Infant/Toddler Socialization ............................. 3  

Note: Forty-five half-days of student teaching in an  
ECE Department–approved infant/toddler site is  
required. Students must complete each required  
course with a grade of “C” or better.  

Certificate of Achievement:  
Infant/Toddler Development  
Outstanding career opportunities for caregivers in  
infant/toddler programs are increasing as the need for  
childcare is becoming greater. This certificate can be  
earned concurrently with the Early Childhood Education  
Certificate. See Department Chair for details.  

Department Requirements (34 units)  
Students will qualify for the Infant/Toddler Development  
Certificate of Achievement when they have  
successfully completed the following courses:  
ECE 102 — Child, Family and Community ......................... 3  
ECE 103 — Foundations of ECE I .................................. 5  
ECE 104 — Foundations of ECE II .................................. 5  
ECE 108 — Creative Learning and Curriculum ..................... 3  
ECE 120 — Child Growth/Development for Educators or  
PSY 140 — Child Development .................................. 3  
ECE 121 — Health, Safety, Nutrition for Young Children ...... 3  
ECE 128 — Observation and Assessment .......................... 3  
ECE 132 — Teaching in a Diverse Society .......................... 3  
ECE 141 — Development and Caregiving of  
Infants and Toddlers ............................................. 3  
ECE 142 — Infant/Toddler Socialization ............................. 3  

Note: Forty-five half-days of student teaching in an  
ECE Department–approved infant/toddler site is  
required. Students must complete each required  
course with a grade of “C” or better.  

Certificate of Achievement: School-Age Care  
Department Requirements (18 units)  
ECE 102 — Child, Family and Community ......................... 3  
ECE 107 — Administration of Child Development Prog. I ...... 3  
ECE 109 — Family-Teacher-Child Relationships .................. 3  
ECE 120 — Child Growth/Development for Educators or  
PSY 140 — Child Development .................................. 3  
ECE 124 — Working With School-Age Children .................. 3  
ED 101 — Introduction to Teaching and Learning  
in K-12 Contemporary Classrooms ............................... 3  

Note: Forty-five half-days of student teaching in an  
ECE Department–approved site is required.  
Certificate of Achievement Requirements: Complete  
all department requirements for the certificate  
with a “C” or better. Candidates for a Certificate of
Note: Forty-five half-days of student teaching in an ECE Department-approved school-age site is required. Pediatric first aid/CPR certification also required.

Certificate of Achievement Requirements: Complete all department requirements for the certificate with a “C” or better. Candidates for a Certificate of Achievement are required to complete at least 20% of the department requirements through SBCC.

Certificate of Achievement:  
Associate Child Care Teacher  
Department Requirements (15-19 units)  
ECE 102 — Child, Family and Community ......................... 3  
ECE 120 — Child Growth/Development for Educators or PSY 140 — Child Development ............................................ 3  
ECE 290 — Work Experience in ECE or .......................... 3  
ECE 103 — Foundations in ECE I .................................... 5  

Plus select two of the following courses:  
ECE 104 — Foundations of ECE II ................................. 5  
ECE 108 — Creative Learning and Curriculum .................. 3  
ECE 110 — Science and Math in ECE ................................ 3  
ECE 115 — Children’s Literature ...................................... 3  
ECE 121 — Health, Safety, Nutrition for Young Children .... 3  
ECE 123 — Children with Special Needs ........................... 3  
ECE 124 — Working with School Age Children ................. 3  
ECE 128 — Observation and Assessment ........................... 3  
ECE 129 — ECE Special Education ..................................... 3  
ECE 132 — Teaching in a Diverse Society ............................. 3  

Certificate of Achievement Requirements: Complete all department requirements for the certificate with a “C” or better. Candidates for a Certificate of Achievement are required to complete at least 20% of the department requirements through SBCC.

Professional Development Program  
The growing needs and interests of community child development teachers and parents of young children provide the basis for the development of course offerings specifically geared to these populations.

Part-time enrollment for professional development and enrichment purposes is encouraged, and courses are applicable to the degree, as well. Community individuals are encouraged to enroll in topics courses (ECE 150 to 157), particularly, because they are designed to be of use to the part-time student already involved in work or relationships with young children.

Other major courses may be taken, as well, on a part-time schedule, as long as prerequisites are met. Contact the ECE Department for current course offerings and information.

Planning a Program of Study  
Understanding typical stages of childhood growth and development is essential for further study in the area of Early Childhood Education. Therefore, it is advised that all new students in the ECE Program complete or be concurrently enrolled in ECE 120 (Child Development) or PSY 140 during their first year’s work.

The course of study is sequential. Therefore, prerequisite course listings must be followed. This necessitates planning the full year’s schedule in the Fall, if possible, to prevent missing a course offering or creating an overload during a particular semester.

New and continuing students should make an appointment for program planning with the ECE faculty adviser before registering.

For the student who is intending to transfer, it is important to be fully aware of the four-year institution’s requirements and transferable courses. The SBCC Counseling Center can be of particular help in this area.

Suggested Course of Study for AS/Certificate Programs  
The “core 8” courses may be completed as quickly as one academic year or they may be taken over a period of many years. Here is a suggested schedule for students who wish to complete the basic 28 units within two semesters.

Fall Semester  
ECE 102 — Child, Family and Community ......................... 3  
ECE 103 — Foundations of ECE I .................................... 5  
ECE 108 — Creative Learning and Curriculum .................. 3  
ECE 120 — Child Growth and Development for Educators ................................. 3  

Spring Semester  
ECE 104 — Foundations of ECE II ................................... 5  
ECE 121 — Health, Safety and Nutrition ............................ 3  
ECE 128 — Observation and Assessment ........................... 3  
ECE 132 — Teaching in a Diverse Society ............................. 3
Additional courses may be required for some certificates. Look carefully at the requirements. The additional courses may be taken at any time they are available.

Requirements for AA-T Degree — Early Childhood Education for Transfer

Students who complete the AS-T in Early Childhood Education will achieve the following competencies:

- Child Development and Learning
- Culture, Diversity, and Equity
- Relationships, Interactions, and Guidance
- Family and Community Engagement
- Dual-Language Development
- Observation, Screening, Assessment, and Documentation
- Special Needs and Inclusion
- Learning Environments and Curriculum
- Health, Safety and Nutrition
- Leadership in Early Childhood Education
- Professionalism
- Administration and Supervision

The Associate in Science Degree in Early Childhood Education for Transfer will provide the foundational knowledge in Early Childhood Education to students who want to earn a Baccalaureate Degree in Early Childhood Education.

Degree Requirements

Complete 60 CSU-transferable units including general education, major requirements and CSU-transferable electives as follows:

I. General Education

Complete one of the following patterns:

- Intersegmental General Education Transfer Curriculum “IGETC” for CSU (Minimum 38 semester units)
- California State University General Education Breadth pattern (Minimum 40 semester units)

II. Major

Complete 28 units as outlined below with a “C” or better in each course. Pass/No Pass grading is not permitted in a course within a student’s major area of study. The courses completed for the major may also be used to fulfill General Education areas on the IGETC

Department Requirements (28 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 102*</td>
<td>Child, Family and Community</td>
<td>3</td>
</tr>
<tr>
<td>ECE 103</td>
<td>Foundations of ECE I</td>
<td>5</td>
</tr>
<tr>
<td>ECE 104</td>
<td>Foundations of ECE II</td>
<td>5</td>
</tr>
<tr>
<td>ECE 108</td>
<td>Creative Learning and Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>ECE 120*</td>
<td>Child Growth and Development for Educators</td>
<td>3</td>
</tr>
</tbody>
</table>

*These courses fulfill an IGETC and/or CSU GE Breadth pattern requirement. Visit www.assist.org or http://articulation.sbcc.edu for IGETC and CSU GE breadth requirements.

Honors and Awards

Early Childhood Education Internships

Each spring, ECE majors in the department may apply for paid internship positions at Orfalea Early Learning Center and Starr-King Parent-Child Workshop.

State Conference Scholarships

Each year, the Santa Barbara Association for the Education of Young Children offers one or more scholarships to full-time Early Childhood Education majors who are current members of SBAEYCY and who can demonstrate financial need. The scholarship is given to defer the cost of registration for the annual state conference, which provides workshops, nationally known speakers in the field, tours of various programs for young children and opportunities for interaction between early childhood educators throughout the state.

SBCC Foundation Scholarships

Each year a variety of scholarships are available to ECE majors. Currently students may be eligible for an Adelle Davis Foundation Scholarship, Sue and J.W. Colin Scholarship, Montecito Rotary CTE Scholarship or the Simms/Mann Family/Bernard Osher Foundation Scholarships. First 5 of Santa Barbara County also offers financial incentives for students working in the field.

Special Department Resources

On-Campus/Off-Campus Practicum Experiences

The ECE Program is fortunate to have a close working relationship with the state-funded SBCC Orfalea Early Learning Center. The staff supervises and trains ECE students in the program while modeling teaching behaviors and principles of education for young children presented in a theoretical format in Early Childhood Education courses.
The student teaching laboratory facility was designed with student teaching in mind, as well as the developmental needs of young children. Additionally, ECE students may obtain lab experience in off-campus infant-toddler or bilingual-bicultural programs through the Early Childhood Education Mentor Teacher Program.

A variety of settings and types of child development programs, such as church-related or employer-sponsored children’s centers, bilingual programs, parent-child workshops, Montessori schools and campus child care centers, are available for placement after meeting specific criteria.

Child Development Training Consortium
With a grant from the California Department of Education, the ECE Department provides special courses and partial reimbursement for SBCC fees to those students who are currently employed in child development programs and are working to complete the next level of licensing and certification requirements.

Advising
Prospective students need to be advised of the course options, prerequisites, etc. before entering in the fall or spring. This consultation and advising during the school year is done by the ECE Department faculty. For information not covered in this Catalog, or for an appointment, call (805) 965-0581, ext. 2290 or 2859.

Program Cost and Outcome
For planning purposes, the webpages to follow provide information on the cost of attendance, program length (assuming a student attends full-time), financing options and historical student completion rates:

Child Care Teacher
www.sbcc.edu/financialaid/gainfulemployment/Child%20Care%20Teacher.htm

ECE Diversity Issues
www.sbcc.edu/financialaid/gainfulemployment/ECE%20Diversity%20Issues.htm

ECE Early Childhood Education
www.sbcc.edu/financialaid/gainfulemployment/ECE%20Early%20Childhood%20Education.htm

ECE Infant/Toddler Development
www.sbcc.edu/financialaid/gainfulemployment/ECE%20InfantToddler%20Development.htm

School-Age Care
www.sbcc.edu/financialaid/gainfulemployment/School-Age%20Care.htm

Early Childhood Education Courses

ECE 102 — Child, Family and Community (3) — CSU, UC
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 lecture
Examines the developing child in a societal context, focusing on the interrelationship of family, school and community, with emphasis on historical and cultural factors that influence the process of socialization and the importance of respectful, reciprocal relationships that support and empower families.

ECE 103 — Foundations of ECE I (5) — CSU
Prerequisites: ECE 102 and 103 and 120 or PSY 140
Skills Advisories: Eligibility for ENG 98 and 103
Course Advisories: ECE 102 and 120 or PSY 140
Hours: 180 (45 lecture, 135 lab)
Foundational course in Early Childhood Education. Emphasis is on developing skills and knowledge needed to work effectively with children, birth to age 8. Introduction to building relationships, developing guidance and supervision skills, observation techniques, curriculum planning, professionalism, and reflective practice. Requires 45 (3 hour shifts) in ECE lab.

ECE 104 — Foundations of ECE II (5) — CSU
Prerequisites: ECE 102 and 103 and 120 or PSY 140 and ECE 108
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 180 (45 lecture, 135 lab)
Design, implementation and evaluation of developmentally appropriate curriculum for young children, birth to age 8. Research on brain development, language development and cognition is integral. Professional skills of resume writing, accessing community resources for families, and providing group times/experiences are developed. Coursework is
combined with a minimum of 45 days of student teaching, with each shift lasting 3 hours in an ECE lab setting.

**ECE 107 — Administration of Child Development Programs I**  
(3) — CSU  
*Skills Advisories: Eligibility for ENG 98 and 103  
Limitation on Enrollment: Completion of 12 core ECE units as defined by Community Care Licensing (CCL) plus 3 units of supervised field experience.  
Hours: 54 lecture*

Study of administrator’s responsibilities in various types of programs, including developing philosophy; selecting/supervising personnel; planning curriculum; programming for staff/families; complying with regulatory authorities; conducting business procedures; planning for facility, equipment and food; evaluating programs; effecting change through legislative process.

**ECE 108 — Creative Learning and Curriculum**  
(3) — CSU  
*Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 54 lecture*

Overview of knowledge and skills related to providing appropriate curriculum and environments for young children. Examination of teacher’s role in supporting development and engagement for all young children. Provides strategies for developmentally-appropriate practice based on observation and assessment across the curriculum, including academic content areas, play, art and creativity plus social-emotional, communication and cognitive skills.

**ECE 109 — Family-Teacher-Child Relationships**  
(3) — CSU  
*Skills Advisories: Eligibility for ENG 98 and 103  
Limitation on Enrollment: 12 ECE core units according to Community Care Licensing.  
Hours: 54 lecture*

Overview of knowledge and skills related to providing appropriate curriculum and environments for young children. Examination of teacher’s role in supporting development and engagement for all young children. Provides strategies for developmentally-appropriate practice based on observation and assessment across the curriculum, including academic content areas, play, art and creativity plus social-emotional, communication and cognitive skills.

**ECE 110 — Science and Math in ECE**  
(3) — CSU  
*Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 54 lecture*

Prepares teachers to provide developmentally appropriate experiences for young children in science and math. Examines how to encourage children’s curiosity, observation skills, problem-solving and reflection by studying scientific and mathematical concepts, such as the human body, environment, shapes, classifying and number values.

**ECE 111 — Administration of Child Development Programs II**  
(3) — CSU  
*Skills Advisories: Eligibility for ENG 98 and 103  
Limitation on Enrollment: Completion of 12 core ECE units as defined by Community Care Licensing plus 3 units of supervised field experience.  
Hours: 54 lecture*

Explores leadership styles and skills, emerging issues in early childhood education, ethics, grant writing, advocacy and staff professional development for leaders of child development programs.

**ECE 114 — Teaching Methods Seminar and Practicum**  
(4) — CSU  
*Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 180 (18 lecture, 162 lab)*

For those students considering teaching as a career. The seminar provides an introduction to teaching methods, curriculum and learning materials development, classroom management, and establishing a relationship with students. A practicum experience in a local school is required.

**ECE 115 — Children’s Literature**  
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 54 lecture*

Develops awareness of value and variety of children’s literature by surveying traditional and contemporary selections, including poetry, fiction, non-fiction and folk literature from many cultures. Proposes criteria for literary/artistic evaluation, use and age appropriateness in selection. Demonstrates presentation techniques, including storytelling.
ECE 117 — Adult Supervision and Mentoring  
(3) — CSU  
**Prerequisites:** ECE 102 and 103 and 108 and 120  
**Skills Advisories:** Eligibility for ENG 98 and 103  
**Hours:** 54 lecture  
Methods and principles of supervising student teachers, volunteers, staff and other adults in early care and education settings. Emphasis is on the roles and development of early childhood professionals as mentors and leaders.

ECE 120 — Child Growth and Development for Educators  
(3) — CSU, UC  
**Skills Advisories:** Eligibility for ENG 98 and 103  
**Hours:** 54 lecture  
History and current issues of early childhood growth and development from birth through the teenage years. Special emphasis given to the child from birth to age five in relation to cultural, gender, class and racial influences. Focus on the practical application of theoretical ideas and implications for early childhood educators.

ECE 121 — Health, Safety and Nutrition for Young Children  
(3) — CSU  
**Skills Advisories:** Eligibility for ENG 98 and 103  
**Hours:** 54 lecture  
Introduction to the legalities, standards, policies and procedures, prevention techniques and early childhood curriculum related to health, safety and nutrition. Key components that ensure physical health, mental health and safety for children identified along with the importance of the collaboration with families and health professionals. Focus on integrating the concepts into everyday planning and program development.

ECE 123 — Children with Special Needs  
(3) — CSU  
**Skills Advisories:** Eligibility for ENG 98 and 103  
**Hours:** 54 lecture  
Overview of information and strategies for early childhood educators in working with children with special needs. Topics include identification, assessment, early intervention services and curriculum adaptations, plus family resources and partnerships. Atypical development includes delays, disabilities and giftedness.

ECE 124 — Working with School-Age Children  
(3) — CSU  
**Skills Advisories:** Eligibility for ENG 98 and 103  
**Hours:** 54 lecture  
Introduction to the increasing role communities play in providing out-of-school services to school-age children. Features include planning and implementing curriculum, designing a safe environment, exploring developmental issues, administrative policies and procedures, identifying community resources, and establishing partnerships to ensure high quality school-age programs.

ECE 126 — Pre-K Development Guidelines  
(0.5) — CSU  
**Skills Advisories:** Eligibility for ENG 98 and 103  
**Hours:** 9 lecture  
Students learn what constitutes high-quality programming across a broad spectrum of curriculum and practice for preschools. Presented in the context of California’s move toward higher expectations for all students at the elementary and secondary school levels. Clear guidelines present a broad picture of programming that can be adjusted to meet the needs of California’s diverse preschool settings and communities.

ECE 128 — Observation and Assessment  
(3) — CSU  
**Skills Advisories:** Eligibility for ENG 98 and 103  
**Limitation on Enrollment:** Student must have completed 12 core units as defined by Community Care Licensing (CCL) plus 3 units of supervised field experience  
**Hours:** 54 lecture  
Provides theoretical framework for understanding the connection between effective observations, assessments and curriculum planning in early childhood settings. Anecdotal records, rating systems and multiple assessment strategies are explored. Focuses on the appropriate use of observation and assessment to document growth, play and learning to join with families in promoting children’s success.

ECE 129 — ECE Special Education  
(3) — CSU  
**Skills Advisories:** Eligibility for ENG 98 and 103  
**Hours:** 54 lecture  
Examines the field of ECE special education. A variety of educational models explored, as well as
specific disabilities. Current research and professional experience evaluated in terms of prenatal substance exposure, health and safety issues, and dealing with stress, grief and trauma.

**ECE 131 — The Developing Bilingual Child**  
(3) — CSU  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 54 lecture

Introduction to the range of development of the language of the developing bilingual child, with emphasis on language and affective domains. The influences of different methods of language acquisition, modes of instruction, environmental factors and strategies for second language acquisition are evaluated.

**ECE 132 — Teaching in a Diverse Society**  
(3) — CSU  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 54 lecture

Examines processes involved in human relations, as related to differences, and how these processes impact teaching, learning and interactions with young children and families. Self-examination, reflection and integration of practices to promote equity and how to best support children as they gain a sense of identity and become confident members of a diverse society.

**ECE 136 — Introduction to Autism Spectrum Disorders**  
(3) — CSU  
Prerequisites: ECE 102 and 120 or PSY 140  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 54 lecture

Overview of information and strategies for early childhood educators in working with children with Autism Spectrum Disorders. Topics include identification, assessment, early intervention services, strategies and curriculum adaptations. Family resources and partnerships are emphasized.

**ECE 141 — Development and Caregiving of Infants and Toddlers**  
(3) — CSU  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 54 lecture

Developmental stages of infants and toddlers and accompanying behavior, guidelines for health and safety, observation and caregiving strategies, including primary caregiving, small groups and continuity of care, are covered. Development of optimal environment for child, parent and staff growth are addressed.

**ECE 142 — Infant/Toddler Socialization**  
(3) — CSU  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 54 lecture

Focus on developing trusting relationships between caregivers and infants/toddlers who are developing social/emotional competence and intellectual growth. Caregivers need to be aware of their feelings, expectations, cultural values and attitudes from their own childhood experiences.

**ECE 150 — Topics in Family Day Care**  
(1) — CSU  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 18 lecture

Designed to allow the ECE Dept. the opportunity to offer a variety of courses related to family child care which reflect student interest, community need and current trends in early childhood education.  
A. Creative Environments for Family Day Care Children  
B. Developmentally Appropriate Activities in Family Child Care  
D. Family Day Care Homes: Arrangement and Equipment

**ECE 151 — Topic in Administration, Supervision and Leadership**  
(1) — CSU  
Prerequisites: ECE 117 with a minimum grade of “C”  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 18 lecture

Designed to allow the ECE Dept. the opportunity to offer a variety of courses related to administration, supervision and leadership which reflect student interest, community need and current trends in early childhood education.  
B. Leadership in Early Childhood Education

**ECE 152 — Topics in Child Behavior and Development**  
(1) — CSU  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 18 lecture
Designed to allow the ECE Dept. the opportunity to offer a variety of courses related to child development (birth through age eight) which reflect student interest, community need and current trends in early childhood education.

- B. Guidance: Effective and Caring Approaches
- C. Activities which Foster Self-Esteem
- D. Working with Aggression in Children
- E. Children’s Sexuality
- F. Kindergarten Expectations

**ECE 153 — Topics in Curriculum Development**

**(1) — CSU**

*Skills Advisories: Eligibility for ENG 98 and 103*

*Hours: 18 lecture*

Designed to allow the ECE Dept. the opportunity to offer a variety of courses related to developing mentally appropriate curriculum for children (birth to age eight) which reflect student interest, community need and current trends in early childhood education.

- A. Use of the Community as Curriculum
- C. Exploring Movement and Music
- D. Designing a Multicultural Curriculum
- F. Science as Discovery
- G. Quality Grouptimes
- H. Holiday Celebrations for Young Children
- I. Math Experiences for Young Children
- J. Anti-Bias Curriculum
- K. Block Play: Key to the Intellect

**ECE 155 — Topics in School-Age Child Care**

**(1) — CSU**

*Skills Advisories: Eligibility for ENG 98 and 103*

*Hours: 18 lecture*

Designed to allow the ECE Dept. the opportunity to offer a variety of courses related to the particular needs of those working with school-age child care programs which reflect student interest, community need and current trends in early childhood education.

- A. Developing School-Age Child Care Programs

**ECE 156 — Topics in Parenting**

**(1) — CSU**

*Skills Advisories: Eligibility for ENG 98 and 103*

*Hours: 18 lecture*

Designed to allow the ECE Dept. the opportunity to offer a variety of courses related to the particular needs of parents and those working with parents which reflect student interest, community need and current trends in early childhood education.

- B. Issues in Parenting

**ECE 157 — Special Topics in Early Childhood Education**

**(1) — CSU**

*Skills Advisories: Eligibility for ENG 98 and 103*

*Hours: 18 lecture*

Designed to allow the ECE Dept. the opportunity to offer a variety of courses of a special or unique nature which reflect student interest, community need and current trends in early childhood education.

- C. Child and Family Abuse: The Teacher’s Role
- E. Working with Challenging Families

**ECE 290 — Work Experience in Early Childhood Education**

**(1-4) — CSU**

*Skills Advisories: Eligibility for ENG 98 and 103*

*Limitation on Enrollment: 6 ECE units, according to Community Care Licensing.*

*Hours: 60-225 lab*

May be taken for 1, 2 or 3 units of credit. Maximum of three (3) units per semester for a maximum of twelve (12) units.

Consists of supervised employment for Early Childhood Education students whose career objectives, course of study and employment complement each other. Students must accomplish specific course objectives.
Earth and Planetary Sciences

Degrees and Awards
Associate in Science: Geological Sciences
Associate in Science Degree (AS-T):
Geology for Transfer
Associate in Arts: Environmental Studies (in conjunction with other departments; see Environmental Studies)
Associate in Arts: Geography (in conjunction with other departments; see Geography)

Program Description
Earth and planetary science is for explorers! Their discoveries are worlds away and also next door. They study mountains and plains, oceans and atmosphere, the history of the earth and the life it supports, and the origins of the universe.

At Santa Barbara City College, Earth and Planetary Sciences students can choose from a wide variety of courses, including Geology, Geography, Oceanography, Meteorology, Astronomy, and Geographic Information Systems (GIS). All are designed to prepare them for exciting and rewarding careers.

The Geology Major
Geology is a multi-disciplinary science that applies biology, chemistry, physics, mathematics, and engineering to the natural world around us. The rich variety of its fields of study includes oceanography, paleontology, geophysics, geochemistry, hydrogeology, engineering geology, environmental geology, and more. That is what makes geology an exciting and challenging major for students with broad scientific interests and a love for natural systems, environments and our planet’s history.

Geology majors gain scientific observational reasoning, communication skills and an understanding of geological concepts and history. This blend of interpretive scientific ability and historical perspective gives geologists an important role in society. They apply their skills and knowledge to solve complex problems related to human interaction with natural systems, hazards and resources, and to communicate solutions and options to the public.

Geology majors who earn their Geology Associate in Arts Degree from Santa Barbara City College are thoroughly prepared to transfer to and excel in university-level geology programs throughout the state and the nation.

Program Student Learning Outcomes
1. Evaluate earth processes and/or earth history, using earth materials and geologic principles.
2. Classify and interpret rocks, minerals, and fossils.
3. Recognize and assess geologic processes in the field.
4. Read and interpret geologic data.

Career Opportunities
Many job opportunities are available to geology graduates. Most opportunities are in private industry—in engineering geology (evaluating sites for homes, commercial buildings, highways, tunnels, etc.); environmental geology (environmental impact studies, evaluation and remediation of contaminated sites); and hydrogeology (development and quality control of groundwater resources).

Geologists are also employed in the discovery and extraction of earth resources, such as energy resources, and metallic and nonmetallic elements.

Besides private industry, all levels of government—city, county, state, and federal—employ geologists for planning and regulatory activities.

A degree in geology is excellent background for academic research and for teaching physical science at the secondary school level.

Geography Major (see Geography)

Department Offices
Elizabeth Gans, Administrative Assistant (EBS-114, ext. 2315)
Eiko Kitao, Lab Technician (EBS-114, ext. 3637)
Kevin McNichol, Lab Technician (EBS-118, ext. 4116)
Marilynn Spaventa, Dean

Faculty and Offices
Michael A. Robinson, Chair (EBS-113, ext. 3741)
William Dinklage (EBS-111, ext. 4114)
Sean Kelly (EBS-116, ext. 3480)
Jeffrey W. Meyer (EBS-110, ext. 4270)
AS Degree Requirements: Geological Sciences
The Geological Sciences AS Degree is designed to provide a strong foundation for geology students planning on transferring to a four-year school.

Department Requirements (37-38.5 units)
ERTH 111 — Dynamic Earth - Physical Geology or..............3
ERTH 111H — Dynamic Earth - Physical Geol, Honors...4
ERTH 111L — Dynamic Earth - Physical Geol Lab .............1
ERTH 112 — History of the Earth....................................3
ERTH 112L — Historical Geology Laboratory .................1
ERTH 125 — Mineralogy and Resources ..........................5
ERTH 126 — Petrology and Rock-Forming Minerals...........5
CHEM 155 — General Chemistry I .....................................5
CHEM 156 — General Chemistry II ...................................5
MATH 150 — Calculus with Analytic Geometry I...................5

Plus 4 units selected from the following:
ERTH 131 — Geologic Field Studies,
Eastern Sierra Nevada Mountains ..................................2
ERTH 132 — Geologic Field Studies, Death Valley .............2
ERTH 133 — Introductory Geology Field Seminar,
Colorado Plateau ..........................................................4
ERTH 134 — Geology Field Studies,
West Sierra Nevada ......................................................2.5
ERTH 137 — Introductory Field Geology ............................4.5
ERTH 138 — Geologic Field Camp ......................................4.5
ERTH 231A — Field Study - Mineralogy and Mineral
Resources of the Eastern Sierra Nevada .........................2
ERTH 231B — Field Study - Energy Resources
of the Eastern Sierra Nevada ........................................2
ERTH 232A — Field Study - Petrology
of the Death Valley Region ..........................................2
ERTH 232B — Field Study - Mineral Resources and
Plate Tectonic History of the Death Valley Region ..........2
ERTH 233 — Advanced Geologic Field Seminar -
Colorado Plateau ..........................................................4

Recommended for Transfer
These additional courses should be considered when planning a program of study for transfer as a geology major:
MATH 160 — Calculus with Analytic Geometry II .............5
PHYS 102 — Introduction to Physics for Science Majors ....4

AS-T Degree Requirements:
Geology for Transfer
Department Requirements
(Total Department Units 28-29 units)
CHEM 155* — General Chemistry I and..........................5
CHEM 156* — General Chemistry II .............................5
ERTH 111* — Dynamic Earth - Physical Geology or ........3
ERTH 111H* — Dynamic Earth - Physical Geol, Honors...4
ERTH 111L* — Dynamic Earth - Physical Geol Lab ..........1
ERTH 112* — History of the Earth ....................................3
ERTH 112L* — Historical Geology Laboratory ................1
MATH 150* — Calculus with Analytic Geometry I ...........5
MATH 160* — Calculus with Analytic Geometry II ..........5

*These courses fulfill an IGETC requirement. Visit www.
assist.org or http://articulation.sbcc.edu for a complete list of
IGETC requirements.

College Requirements
For complete information, see “Graduation Requirements” in the Catalog Index.

Planning a Program of Study
Careers in the earth and planetary sciences are increasingly dependent upon completion of one year of calculus, college chemistry and college physics, along
with a sound foundation in the earth sciences. The student is therefore urged to plan a program to ensure the orderly completion of the required courses outside the
earth sciences. Students having deficiencies, particularly in mathematics, should correct these deficiencies early in their programs.

Not all courses in the Department of Earth and Planetary Sciences are offered each semester. Courses currently offered only during the Fall Semester are
ERTH 125 (Mineralogy and Resources), ERTH 114 (The Geology of California), ERTH 121 (Geology Seminar),
and ERTH 131 (Geology Field Studies, Eastern Sierra).
Courses currently offered only during the Spring Semester are ERTH 126 (Petrology and Rock-Forming Minerals), ERTH 113 (The Geology of National Parks), ERTH 132 (Geology Field Studies, Death Valley), and ERTH 133 (Geology Field Seminar, Colorado Plateau).

Preparation for Transfer
Course requirements for transfer vary depending upon the college or university a student wishes to attend. Therefore, it is most important for a student to consult a departmental adviser before planning an academic program for transfer.

Honors and Awards
During the latter part of each Spring Semester, an awards event is held to recognize students for their academic achievements and service to the department and college. Many awards are given.

Scholarships
Various organizations provide scholarships for students in the Earth and Planetary Sciences. These scholarships may be awarded for academic excellence and/or financial need. A partial list of these scholarships:
• Petrolog, Inc. Scholarship
• Thomas Bennett Scholarship
• Harold Alexander Scholarship
• Karen Armstrong Scholarship
• Ronald Chromy Scholarship
• Carl Sagan Scholarship
• Ventura Gem and Mineral Society Award
• William Kennett Geology Scholarship
• Jeff Marshall Mineralogy Award
• Soil Moisture Award
• Coast Geological Society Scholarship
• Phil Olsen Award
• American Petroleum Institute Scholarships
• Dr. Robert S. Gray Award, Outstanding Geological Sciences Major

Field Courses
The department has an impressive field program. Special courses directly related to field orientation are:

ERTH 130V — Geologic Field Studies - Hawaii Volcanology
A twelve-day field-studies course with an emphasis on the structural, plutonic and volcanic features of Kilauea volcano, Hawaii. Kilauea’s long-documented eruptive history and easy accessibility make it a training ground for USGS volcanologists. Focuses on the history and features of the volcano and its interactions with the people that live on it.

ERTH 131 — Geologic Field Studies in the Eastern Sierra
This field course provides an intensive hands-on experience in geologic education, and is open to anyone who has taken or is taking an Earth Science class. Students spend all daylight hours in the field. They have the opportunity to study glacial features, volcanic processes, the tectonics of mountain building, active faults, geomorphology and the processes of erosion and mass wasting. For more information, contact the department office (EBS-114).

ERTH 132 — Geologic Field Studies in Death Valley
This five-day field course duplicates some of the logistics and rigorous educational experiences of EARTH 131; however, the similarities end there. Death Valley presents a completely different geologic environment for study. Two billion years of earth history is exposed in the rocks. Students reconstruct geologic history by actually observing the geologic processes, fossils and rock exposures. The rocks tell the story of the evolution of Death Valley. This course is offered to anyone who has taken or is taking an Earth Science class. For more information, contact the department office (EBS-114).

ERTH 133 — Geology Field Seminar, Colorado Plateau
This 14-day field course is designed for the more advanced geology student. Field work involves the study of the general geology of the Colorado Plateau, with emphasis on features of the Grand Canyon, Canyonlands, San Rafael Swell, and Bryce and Zion National Parks. There is no other place in the world which offers the earth science student such a diversity of geologic features to study, and this amongst some of the most magnificent scenery on earth. For more information, contact the department office (EBS-114).

ERTH 134 — Geologic Field Studies, Western Sierra Nevada
Eight-day field course to study and interpret the geologic features and history of the western Sierra Nevada region. Topics include plutonism, landform evolution,
glaciation, tectonic and geologic history, and uplift processes of the modern Sierra Nevada. For more information, contact the department office (EBS-114).

ERTH 135 — Geologic Field Seminar, Western North America
A 25-day field study of the geology of the Western United States and Western Canada. Emphasis on the features, processes and geologic history of the regions' parks: Grand Teton, Yellowstone, Glacier/Waterton, Banff, Jasper, Crater Lake and Lassen National Parks. Designed for students with previous geologic background. For more information, contact the department office (EBS-114).

ERTH 137/138 — Introductory Field Geology
These courses consist of four weeks in the Summer Session classroom and two weeks in the field camp in the Cuyama Valley. Courses are limited to Geology majors and are intended as a rigorous experience in field methods. The student learns the use of mapping tools by actually doing geologic mapping in the field. The student also learns to do geologic field reports and to operate geological surveying equipment. Students learn to share work and knowledge in the field as they work in several different assigned teams. This course has proved to be of extreme importance in preparing students for upper-division geology fieldwork when transferring to a four-year institution.

ERTH 121 — Geology Seminar
The Department of Earth and Planetary Sciences offers a three-unit seminar course (ERTH 121), which meets as a short course on Fridays. The geology seminar includes local field trips and outside lectures. The seminar is designed to bring students in contact with professionals in the earth sciences and to acquaint them with local geology.

Tutorial Opportunities
Each semester, qualified advanced Earth Science students are selected to tutor beginning Earth Science students. This program has direct benefits for both the beginning student and the tutor. The Earth Science tutorial program provides one-on-one instruction and is free.

Special Department Resources
The Earth and Planetary Sciences Department has one of the most completely equipped facilities of any two-year college in the state. This includes research-quality petrographic microscopes, a complete rock processing and thin section laboratory, a complete stock of mineral, rock and fossil material, geophysical instruments, a number of field vehicles, field survey instruments, GPS units, advanced astronomy telescopes and a planetarium, and other specialized earth science equipment. This equipment offers students unparalleled opportunities for “hands-on” instruction.

Advising
In addition to the college counselor for Earth and Planetary Sciences and the Career Center staff, the department faculty is available to students who are planning academic programs and career goals in the earth sciences. For further information on programs or courses of study at Santa Barbara City College, contact Jan Schultz (EBS-117, schultz@sbcc.edu) or Jeff Meyer (EBS-110, (805) 965-0581, ext. 4270)

Student Participation
Students have many opportunities to become involved in department-related activities through the Geology Club, which sponsors numerous field trips, outings, and social events throughout the school year. If you are interested in this club, please check with a staff member. Also, another club is the Student Chapter, AAPG.

Earth Studies Courses
ERTH 101 — Introductory Astronomy
(3) — CSU, UC* 
Skills Advisories: MATH 1 and ENG 103
Hours: 54 lecture
Non-mathematical presentation of our knowledge of the universe. Includes birth and death of stars, formation of the solar system, black holes, quasars, the fourth dimension and the fate of the universe. Also considered are common phenomena such as eclipses, the motion of the planets and their moons, comets, and meteors. (*UC Transfer Limit: ERTH 101 and 101H combined: maximum credit, one course)
ERTH 101H — Introductory Astronomy, Honors (4) — CSU, UC*
Skills Advisories: MATH 1 and Eligibility for ENG 110 or 110H
Course Advisories: ERTH 102
Limitation on Enrollment: Admission to Program*
Hours: 72 lecture
Introduces students to the universe throughout its history. It emphasizes astronomical knowledge from Earth, as a planet in the solar system, to quasars at the edge of the known universe. The motions of objects within the galaxy are also examined. (*UC Transfer Limit: ERTH 101 and 101H combined: maximum credit, one course)

ERTH 102 — Observational Astronomy Laboratory (1) — CSU, UC
Skills Advisories: MATH 1 and ENG 103
Corequisites: ERTH 101 or 101H
Hours: 54 lab
Emphasizes nighttime observation of the stars, galaxies and constellations with real-time observations. Simulation programs are used to graphically examine astronomical phenomena. Celestial navigation, motions of the earth and moon, and study of the celestial sphere emphasized.

ERTH 103A — Advanced Observational Astronomy Laboratory - Fall (1) — CSU, UC*
Prerequisites: ERTH 102
Hours: 54 lab
Follow-up course to ERTH 102. Use of planetarium and observatory to illustrate constellations, celestial motions, and to observe stars, planets and deep sky objects. Emphasis for continuing students is on stars and constellations of the Fall sky, use of larger and more advanced telescopes, and in-depth observations of deep sky objects of the Fall sky. (*UC Transfer Limit: ERTH 103A, 103B, 103C combined, maximum credit: one course)

ERTH 103B — Advanced Observational Astronomy Laboratory - Spring (1) — CSU, UC*
Prerequisites: ERTH 102
Hours: 54 lab
Follow-up course to ERTH 102. Use of planetarium and observatory to illustrate constellations, celestial motions, and to observe stars, planets and deep sky objects. Emphasis for continuing students is on stars and constellations of the Spring sky, use of larger and more advanced telescopes, and in-depth observations of deep sky objects of the Spring sky. (*UC Transfer Limit: ERTH 103A, 103B, 103C combined, maximum credit: one course)

ERTH 103C — Adv Observational Astronomy Lab - Summer (1) — CSU, UC*
Prerequisites: ERTH 102
Hours: 54 lab
Follow-up course to ERTH 102. Use of planetarium and observatory to illustrate constellations, celestial motions, and to observe stars, planets and deep sky objects. Emphasis for continuing students is on stars and constellations of the Summer sky, use of larger and more advanced telescopes, and in-depth observations of deep sky objects of the Summer sky. (*UC Transfer Limit: ERTH 103A, 103B, 103C combined, maximum credit: one course)

ERTH 104 — Introductory Astrophysics (3) — CSU
Skills Advisories: Eligibility for ENG 103. Proficiency in MATH 104 or 107 or 111
Hours: 54 lecture
Introductory astronomy course that integrates mathematics of physics in the study of objects in the universe.

ERTH 105 — Topics in Astronomy (0.5-3) — CSU
Skills Advisories: MATH 1 and ENG 103
Hours: 9-54 lecture
Designed for students wanting to go beyond the regular introductory astronomy courses. Lectures, discussions, guest speakers, activities and field trips help students explore specific topics in physics and astronomy. Different topics are offered different semesters and may include planetary exploration, the space station and other space missions, new solar systems, astrobiology, relativity, cosmology, black holes, quasars, dark matter, etc. (*UC Transfer Limit: ERTH 105 computed as Independent Studies; see counselor)
ERTH 105A — Planetary Geology of Recent NASA Missions  
(1) — CSU  
Skills Advisories: MATH 1 and Eligibility for ENG 103  
Hours: 16-18 lecture  
Designed for students wanting to go beyond the regular introductory astronomy courses. Lectures, discussions, guest speakers, activities and field trips help students explore specific topics in physics and astronomy, such as discoveries from planetary space flight missions to Mercury, Mars, Saturn, Saturn’s moon Titan and comets. (*UC Transfer Limit: ERTH 105 computed as Independent Studies; see counselor)  

ERTH 106 — Black Holes and the Universe  
(3) — CSU, UC  
Skills Advisories: MATH 1 and ENG 103  
Course Advisories: ERTH 101 or 101H  
Hours: 54 lecture  
Basic introduction to relativity, cosmology, quantum mechanics, string theory, black holes, time travel, higher dimensions and other abstract theories of the universe. Provides students with a broad-based overview of these physics theories and allows them to explore various current topics in astronomy.  

ERTH 111 — Dynamic Earth - Physical Geology  
(3) — CSU, UC*  
Skills Advisories: MATH 1 and Eligibility for ENG 103  
Course Advisories: ERTH 111L and 131 or 132  
Hours: 54 lecture  
Introduction to the physical development of the earth. Emphasis on earth materials (rocks and minerals), hydrologic processes, tectonic process (plate tectonics, earthquakes, mountain building and volcanism), and structures (folds, faults). Current theories on structure and evolution of the earth are discussed. Designed for both non-science majors and earth science majors. Required of all Geology majors. (*UC Transfer Limit: ERTH 111 and 111H combined: maximum credit, one course)  

ERTH 111H — Dynamic Earth - Physical Geology, Honors  
(4) — CSU, UC*  
Skills Advisories: MATH 1; Eligibility for ENG 110 or 110H  
Course Advisories: ERTH 111L and 131  
Limitation on Enrollment: Honors Program Acceptance  
Hours: 72 lecture  
Honors introduction to the physical development of the earth. Emphasis on earth materials (rock and minerals), hydrologic processes (weathering, streams, glaciers, beaches and ground water), tectonic processes (plate tectonics, earthquakes, mountain building and volcanism) and structures (folds, faults). Current theories on structure and evolution of the earth are discussed. (*UC Transfer Limit: ERTH 111 and 111H combined: maximum credit, one course)  

ERTH 111L — Dynamic Earth - Physical Geology Laboratory  
(1) — CSU, UC  
Corequisites: ERTH 111 (prior to or concurrently) or ERTH 111H (concurrently)  
Skills Advisories: MATH 1 and ENG 103  
Hours: 54 lab  
Laboratory approach to earth materials and processes, including rock and mineral identification and interpretation, plate tectonic rock cycle, topographic map and aerial photo interpretation, structural geology (folds and faults), geologic cross sections and geologic maps. Activities include four field trips to local areas of geologic interest. Required of all Geology majors.  

ERTH 112 — History of the Earth  
(3) — CSU, UC  
Skills Advisories: ENG 103  
Course Advisories: Concurrent enrollment in ERTH 112L and 131 or 132  
Hours: 54 lecture  
Introduction to the geologic history of the earth, using plate tectonic concepts, stratigraphy, geologic dating, fossils and evolution. Emphasis on the origin and evolution of continents, oceans, the atmosphere and life on earth. Designed to accommodate both non-science majors and Earth Science majors. Required of Geology majors.  

ERTH 112L — Historical Geology Laboratory  
(1) — CSU, UC  
Corequisites: ERTH 112  
Skills Advisories: ENG 103  
Hours: 54 lab  
Laboratory approach to understanding the scientific method as it applies to deciphering earth history. Topics include sedimentary rock identification and interpretation, stratigraphy, paleogeographic maps and fossil identification. Activities include field trips to local areas of geologic interest. Required of Geology majors.
ERTH 113 — Geology of National Parks
(3) — CSU, UC*
Skills Advisories: ENG 103
Three lecture hours, plus one additional hour weekly.
Hours: 54 lecture
Study of geologic processes and phenomena responsible for shaping the modern landscape, as exemplified within selected National Parks and Monuments. Plate tectonic setting and history emphasized. Designed to accommodate both science and non-science majors. (*UC Transfer Limit: ERTH 113, 131, 132, 133, 135, 137, 138, 233 any or all of these courses combined: maximum credit, one course; no credit for ERTH 113 if taken after ERTH 111, 111H or 112)

ERTH 114 — The Geology of California
(3) — CSU, UC
Skills Advisories: ENG 103
Hours: 54 lecture
Landscapes of California interpreted by introductory plate tectonics. Volcanism, earthquakes and other geologic processes are studied in relation to the origins and feature of the geomorphic provinces of the state. Provinces include the Sierra Nevada, Coast Ranges, Transverse Ranges, Cascades, Klamath Mountains, Modoc Plateau, Central Valley, Mojave, and the Basin and Range. Appropriate for science and non-science majors.

ERTH 115/ENVS 115 — Environmental Geology
(3) — CSU, UC
Skills Advisories: MATH 1 and ENG 103
Course Advisories: Concurrent enrollment in ERTH 115L/ENVS 115L and ERTH 131 or 132
Hours: 54 lecture
Introduction to the problems of volcanism, earthquakes, fire, floods, landslides and other geologic hazards; air and water pollution; hazardous materials; and land use planning. Applications to the Santa Barbara area emphasized. Required of Environmental Studies majors.

ERTH 115L/ENVS 115L — Environmental Geology Laboratory
(1) — CSU, UC
Corequisites: ERTH 115/ENVS 115
Skills Advisories: MATH 1 and ENG 103
Hours: 54 lab
Laboratory approach to topics covered in ENVS 115, with emphasis on rock and mineral identification, hazard assessment, geologic resource management, and land use planning. In-lab field trips.

ERTH 116/ENVS 116 — Energy and Natural Resources
(3) — CSU, UC
Skills Advisories: MATH 4 and ENG 103
Hours: 54 lecture
Study of formation, exploration, development and judicious use of natural resources in relation to present and future energy requirements; electricity, conservation, fossil fuels, solar, geothermal, nuclear and hydrogen. Required of Environmental Studies majors.

ERTH 121 — Geology Seminar
(1) — CSU
Corequisites: ERTH 111 or 112 or 111H or 115 or ENVS 115 or ERTH 113 or 114
Hours: 18 lecture
Available to students enrolled in Earth Science courses. Attendance is required at the short course each week and select number of department-sponsored seminars, weekend field trips and lectures sponsored by professional associations and institutions. Required of Geology majors. (*UC Transfer Limit: ERTH 121 computed as Independent Studies; see counselor)

ERTH 122 — Dinosaurs
(3) — CSU, UC
Skills Advisories: ENG 103
Hours: 54 lecture
Introduction to the science of dinosaurs, stressing their evolution, ecology, bone structures and extinction. Emphasizes dinosaurian diversity, rise of dinosaurs, and their extinction in a Mesozoic world. Provides for a better perspective on the patterns and trends of all life, living and extinct. Scientific videos and fossil material used in course.

ERTH 125 — Mineralogy and Resources
(5) — CSU, UC*
Skills Advisories: MATH 4 and ENG 103
Course Advisories: ERTH 111 or 112 and CHEM 101
Hours: 162 (54 lecture, 108 lab)
Introduction to identification and basic concepts of mineralogy, emphasizing crystallography, crystal chemistry, mineral chemistry, paragenesis of economic mineral and plate tectonics of mineral resources. A portion of the course is devoted to optical mineralogy.
Hand identification of minerals stressed. (*UC Transfer Limit: ERTH 125 and 232B combined: maximum credit, one course).

**ERTH 126 — Petrology and Rock-Forming Minerals (5) — CSU, UC**
Skills Advisories: MATH 4 and ENG 103
Course Advisories: ERTH 111 or 112 and CHEM 101
Hours: 162 (54 lecture, 108 lab)

Designed to familiarize students with the basic fundamentals and classification of rock-forming mineralogy, textures, origins and occurrences of igneous, sedimentary and metamorphic rocks. Use of the polarizer, X-ray and field identification procedures stressed. (*UC Transfer Limit: ERTH 126 and 232A combined: maximum credit, one course).

**ERTH 130V — Geologic Field Studies - Hawaii Volcanology (2.5) — CSU**
Skills Advisories: ENG 103
Corequisites: ERTH 111 or 111H or 112 or 113 or 114 or 115 or ENVS 115 or ERTH 125 or 126 or 131 or 132 or 133 or 141 or GEOG 101 or ERTH 151
Hours: 117 (9 lecture, 108 lab)

A twelve-day field-studies course with an emphasis on the structural, plutonic and volcanic features of Kilauea volcano, Hawaii. Kilauea’s long-documented eruptive history and easy accessibility make it a training ground for USGS volcanologists. Focuses on the history and features of the volcano and its interactions with the people that live on it.

**ERTH 131 — Geologic Field Studies – Eastern Sierra Nevada (2) — CSU, UC**
Corequisites: ERTH 111 or 111H or 112 or 113 or 114 or 115 or ENVS 115 or ERTH 122 or 125 or 126 or 132 or 141 or GEOG 101 or ERTH 151
Hours: 72 (18 lecture, 54 lab)

Fee required – see department for information. Five-day field course to study and interpret the geologic features and history of the Eastern Sierra Nevada region. Topics include faults, volcanoes, glaciers, mining and tectonic history of the region. (*UC Transfer Limit: ERTH 113, 131, 132, 133, 135, 137, 138, 233 any or all of these courses combined: maximum credit, one course).

**ERTH 132 — Geologic Field Studies – Death Valley (2) — CSU, UC**
Corequisites: ERTH 111 or 111H or 112 or 113 or 114 or 115 or ENVS 115 or ERTH 122 or 125 or 126 or 131 or 141 or GEOG 101 or 106 or ERTH 151
Hours: 72 (18 lecture, 54 lab)

Fee required – see department for information. Five-day field course to study and interpret the geologic features and history of the Death Valley region. Topics include the volcanic, tectonic and hydrologic history of the region. (*UC Transfer Limit: ERTH 113, 131, 132, 133, 135, 137, 138, 233 any or all of these courses combined: maximum credit, one course).

**ERTH 133 — Introductory Geologic Field Seminar – Colorado Plateau (4) — CSU, UC**
Skills Advisories: ENG 103
Corequisites: ERTH 111 or 111H or 112 or 113 or 114 or 115 or ENVS 115 or ERTH 125 or 126 or 131 or 132 or 141 or GEOG 101 or ERTH 151 (concurrent)
Hours: 170 (23 lecture, 147 lab)

Fee required – see department for information. Fifteen-day intensive field study of the geology of the Colorado Plateau region. Emphasis on the geologic processes and features of the parks of the Southwest, including the Grand Canyon, Canyonlands, Arches, Capitol Reef, Bryce and Zion National Parks. Designed for students with previous geologic background. (*UC Transfer Limit: ERTH 113, 131, 132, 133, 135, 137, 138, 233 any or all of these courses combined: maximum credit, one course).

**ERTH 134 — Geologic Field Studies – Western Sierra Nevada (2.5) — CSU**
Skills Advisories: ENG 103
Hours: 81 (27 lecture, 54 lab)

Fee required – see department for information. Eight-day field course to study and interpret the geologic features and history of the western Sierra Nevada region. Topics include plutonism, landform evolution, glaciation, tectonic and geologic history, and uplift processes of the modern Sierra Nevada.
ERTH 135 — Geologic Field Seminar – Western North America  
(5) — CSU, UC*  
Skills Advisories: ENG 103  
Corequisites: ERTH 111 or 111H or 112 or 113 or 114 or 115 or ENVS 115 or ERTH 125 or 126 or 131 or 132 or 133  
Hours: 198 (36 lecture, 162 lab)  
Fee required – see department for information. A 23-day field study of the geology of the Western United States and Western Canada. Emphasis on the features, processes and geologic history of the regions' parks: Grand Teton, Yellowstone, Glacier/Waterton, Banff, Jasper, Crater Lake and Lassen National Parks. For students with previous geologic background.  
(*UC Transfer Limit: ERTH 113, 131, 132, 133, 135, 137, 138, 233 any or all of these courses combined: maximum credit, one course).  

ERTH 137 — Introductory Field Geology  
(4.5) — CSU, UC*  
Prerequisites: ERTH 111 or 111H or 125 or 126 or 131 or 132 or 133  
Skills Advisories: MATH 4 and ENG 103  
Course Advisories: ERTH 111L or 112L  
Hours: 153 (45 lecture, 108 lab)  
Provides intensive field experience in application of field geology equipment, methods, techniques and maintenance procedures. "Hands-on" approach includes use of Brunton compass and tape, aerial photos, plane table and alidade, and geological mapping.  
(*UC Transfer Limit: ERTH 113, 131, 132, 133, 135, 137, 138, 233 any or all of these courses combined: maximum credit, one course).  

ERTH 138 — Geology Field Camp  
(4.5) — CSU, UC*  
Skills Advisories: MATH 4 and ENG 103  
Corequisites: ERTH 137  
Hours: 176 (28 lecture, 148 lab)  
Summer Session course, offered during the last two weeks. Consists of 14 consecutive days at a geologic field camp, followed by five eight-hour days in an on-campus laboratory. Provides for rigorous work experience in field geology for Earth Science majors. Includes field mapping of a “badlands” area, using aerial photographs, topographic maps, geological surveying equipment and earth materials.  
(*UC Transfer Limit: ERTH 113, 131, 132, 133, 135,
of seawater, currents, waves, tides and the ocean environment. Required of Marine Science majors.

**ERTH 151L — Introductory Physical Oceanography Laboratory**  
**(1) — CSU, UC**  
Corequisites: ERTH 151  
Skills Advisories: MATH 1 and ENG 103  
Hours: 54 lab

Lab exercises in marine geology, sedimentation, navigation, currents, waves, chemical and physical properties of seawater and plate tectonics. Field trips to beach and mountains to study oceanographic processes and products. Required of Marine Science majors.

**ERTH 152/GEOG 152 — Weather and Climate**  
**(3) — CSU, UC**  
Skills Advisories: MATH 95 and ENG 103  
Course Advisories: Concurrent enrollment in ERTH 152L/GEOG 152L  
Hours: 54 lecture

Fundamentals of meteorology, including the nature of the atmosphere, solar radiation and energy balances, circulation of the atmosphere, air masses and fronts, atmospheric moisture, clouds and fog, precipitation, cyclones, weather analysis and forecasting, climate and climate change.

**ERTH 152L/GEOG 152L — Weather and Climate Laboratory**  
**(1) — CSU, UC**  
Corequisites: ERTH 152 or GEOG 152  
Skills Advisories: MATH 95 and Eligibility for ENG 103  
Hours: 54 lab

Laboratory approach to topics covered in the Weather and Climate lecture (ERTH 152/GEOG 152). Exercises introduce fundamentals of meteorology, including the nature of the atmosphere, air temperature and humidity, and weather analysis and forecasting. Students collect and analyze a variety of environmental data.

**ERTH 171/GEOG 171 — Introduction to Geographic Information Systems and Maps**  
**(2) — CSU, UC**  
Corequisites: ERTH 172/GEOG 172  
Skills Advisories: MATH 4 and ENG 103  
Hours: 36 lecture

Techniques, tools and theories used to examine geographic information. Includes the structure, uses, and basic operations of a Geographic Information System (GIS). Cartography and cartographic design are incorporated, as well as overviews of aerial photography, remote sensing, and global positioning systems. Includes uses of GIS software in business, urban planning, resource management and scientific research.

**ERTH 172/GEOG 172 — Geographic Information Systems: Software Applications**  
**(2) — CSU, UC**  
Corequisites: ERTH 171/GEOG 171  
Skills Advisories: MATH 4 and ENG 103  
Hours: 54 (27 lecture, 27 lab)

Extensive practice with a GIS package, accompanied by exploration of the range of applications in which GIS is used (resource management, public works, business, planning, scientific research). Covers key skills for operating GIS software packages, including geographical data acquisition, creation, management, analysis and output.

**ERTH 175/GEOG 175 — Raster GIS Applications**  
**(2) — CSU**  
Prerequisites: ERTH 172 or GEOG 172 with a minimum grade of “C”.  
Skills Advisories: Eligibility for ENG 103; MATH 4  
Hours: 36 lecture

Hands-on introduction to basic Raster concepts, using ArcGIS Spatial Analyst extension within the ArcGIS environment. The underlying methodology required to solve real world problems is explored through a series of extensive course projects. Key skills in data acquisition, surface creation techniques, map algebra, database design and results reporting are covered.

**ERTH 231A — Field Study - Mineralogy and Mineral Resources of the Eastern Sierra Nevada**  
**(2) — CSU, UC**  
Concurrent Corequisites: ERTH 111 or 111H or 112 or 113 or 114 or 115 or ENVS 115 or ERTH 122 or 125 or 126 or 131 or 132 or 133 or 141 or GEOG 101 or ERTH 151 or 231B  
Hours: 72 (18 lecture, 54 lab)

Fee required – see department for information. Five-day field course to study and interpret the mineralogy
and resources of the Eastern Sierra Nevada region. Topics include metallic and industrial mineral resources, energy resources and mining of the region.

**ERTH 231B — Field Study - Energy Resources of the Eastern Sierra Nevada**  
**(2) — CSU, UC**  
Concurrent Corequisites: ERTH 111 or 111H or 112 or 113 or 114 or 115 or ENVS 115 or ERTH 116 or ENVS 116 or ERTH 122 or 125 or 126 or 131 or 132 or 133 or 141 or GEOG 101 or ERTH 151 or 231A  
Hours: 72 (18 lecture, 54 lab)  
Fee required – see department for information. Five-day field course to study and interpret the energy resources of the Eastern Sierra Nevada region. Topics include wind, solar-thermal electric, solar photovoltaic, micro hydropower, hydropower and geothermal energy resources of the region.

**ERTH 232A — Field Study – Petrology of the Death Valley Region**  
**(2) — CSU, UC**  
Prerequisites: ERTH 112 or 113 or 114 or 115 or ENVS 115  
Corequisites: ERTH 111 or 111H or 122 or 125 or 126 or 131 or 132 or 133 or 141 or GEOG 101 or ERTH 151  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 72 (18 lecture, 54 lab)  
Fee required – see department for information. Five-day field course to study and interpret the petrology of the Death Valley region. Topics include field recognition and interpretation of igneous, sedimentary and metamorphic rocks, and mining of the region.  
(*UC Transfer Limit: ERTH 126 and 232A combined: maximum credit, one course*)

**ERTH 232B — Field Study – Mineral Resources and Plate Tectonic History of the Death Valley Region**  
**(2) — CSU, UC**  
Corequisites: ERTH 111 or 111H or 112 or 113 or 114 or 115 or ENVS 115 or ERTH 122 or 125 or 126 or 131 or 132 or 133 or 141 or GEOG 101 or ERTH 151  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 72 (18 lecture, 54 lab)  
Fee required – see department for information. Five-day field course to study and interpret the mineral resources and tectonic history of the Death Valley region. Topics include field recognition and interpretation of rocks, mineral deposits, and structures of the region. (*UC Transfer Limit: ERTH 125 and 232B combined: maximum credit, one course*)

**ERTH 233 — Advanced Geologic Field Seminar – Colorado Plateau**  
**(4) — CSU, UC**  
Prerequisites: ERTH 133  
Skills Advisories: Eligibility for ENG 103  
Hours: 170 (23 lecture, 147 lab)  
Fee required – see department for information. 15-day intensive field study of the geology of the Colorado Plateau region. Emphasis on the stratigraphy, tectonic evolution and geologic history of the parks of the Southwest, including the Grand Canyon, Canyonlands, Arches, Capitol Reef, Bryce and Zion National Parks. Designed for second-year geology students. (*UC Transfer Limit: ERTH 113, 131, 132, 133, 135, 137, 138, 233 any or all of these courses combined: maximum credit, one course).*

**ERTH 299 — Independent Study in Earth Science**  
**(1-4) — CSU**  
Limitation on Enrollment: Completion of a minimum of 12 units at SBCC, with a 2.5 GPA, and a minimum of six units, with a 3.0 GPA within the department.  
Hours: 48-192 lab  
For complete information, see “Independent Study” in the Catalog Index. (*UC Transfer Limit: ERTH 299 computed as Independent Studies; see counselor).*

### Environmental Studies Courses

**ENVS 110 — Humans and the Biological Environment**  
**(3) — CSU, UC**  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture  
Growth and variations in populations of organisms and their interactions with the physical environment. Characteristics of living natural resources and changes caused by expanding human populations and technological developments. Satisfies SBCC General Education requirement in Natural Sciences when combined with ENVS 111. Required for the Environmental Studies major.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>CSU, UC</th>
<th>Corequisites</th>
<th>Skills Advisories</th>
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<th>Description</th>
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<tbody>
<tr>
<td>ENVS 111</td>
<td>Environmental Field Studies</td>
<td>(1)</td>
<td>CSU, UC</td>
<td>ENVS 110</td>
<td>Eligibility for ENG 110 or 110H</td>
<td>54 lab</td>
<td>Field studies designed to demonstrate general ecological/environmental principles through exposure to and analysis of many different communities and sites of environmental concern. Satisfies SBCC General Education requirement in Natural Sciences when combined with ENVS 110.</td>
</tr>
<tr>
<td>ENVS 115/ERTH 115</td>
<td>Environmental Geology</td>
<td>(3)</td>
<td>CSU, UC</td>
<td>MATH 1 and ENG 103</td>
<td>Concurrent enrollment in ENVS 115/ERTH 115L and 131 or 132</td>
<td>54 lecture</td>
<td>Introduction to the problems of volcanism, earthquakes, fire, floods, landslides and other geologic hazards; air and water pollution; hazardous materials; and land use planning. Applications to the Santa Barbara area emphasized. Required of Environmental Studies majors.</td>
</tr>
<tr>
<td>ENVS 115L/ERTH 115L</td>
<td>Environmental Geology Laboratory</td>
<td>(1)</td>
<td>CSU, UC</td>
<td>ENVS 115/ERTH 115</td>
<td>MATH 1 and ENG 103</td>
<td>54 lab</td>
<td>Laboratory approach to topics covered in ENVS 115, with emphasis on rock and mineral identification, hazard assessment, geologic resource management, and land use planning. In-lab field trips.</td>
</tr>
<tr>
<td>ENVS 116/ERTH 116</td>
<td>Energy and Natural Resources</td>
<td>(3)</td>
<td>CSU, UC</td>
<td>MATH 4 and ENG 103</td>
<td>Concurrent enrollment in ENVS 116/ERTH 116L</td>
<td>54 lecture</td>
<td>Study of formation, exploration, development and judicious use of natural resources in relation to present and future energy requirements; electricity, conservation, fossil fuels, solar, geothermal, nuclear and hydrogen. Required of Environmental Studies majors.</td>
</tr>
<tr>
<td>ENVS 200</td>
<td>Projects in Sustainability</td>
<td>(2)</td>
<td>CSU</td>
<td>Eligibility for ENG 110 or 110H</td>
<td></td>
<td>36 lecture</td>
<td>Students work in groups to develop projects that make the college and local community more sustainable. Lectures, discussions and workshops provide the student with current knowledge in environmental science, sustainable practices and real-world skills needed to implement practical solutions to local environmental and social problems.</td>
</tr>
</tbody>
</table>
## Education

### Award
Skills Competency Award: Introduction to Teaching English as a Foreign Language

### Program Description
The Turner Teacher Education Program is designed to provide an introduction to the teaching profession. ED 101 will provide an opportunity to explore teaching as a career while working toward an Associate in Arts Degree in Liberal Studies. Included is a combination of in-class theory and information about teaching, along with an opportunity to intern with a local school. The Teaching English as a Foreign Language (TEFL) Program offers a six-unit Skills Competency Award for students interested in teaching English abroad. Former students have gone to South America, Asia and other regions to teach. In order to receive the Skills Competency Award, students must complete all six courses.

For information regarding the TEFL program, contact Marilyn Spaventa at ext. 2539.

### Program Student Learning Outcomes
1. Students will be able to apply the fundamentals of critical and reflective thinking to the analysis of the issues and challenges facing American education.
2. Students will develop a personal philosophy of education in order to be able to articulate their personal goals, values and beliefs about teaching.
3. Students will develop a pre-professional portfolio for use in the advancement in the field.

### Faculty and Offices
Julie K. Smith, Chair (ECOC-1/2, ext. 2859)

### College Requirements
For complete information, see “Graduation Requirements” in the Catalog Index.

### Skills Competency Award, Introduction to Teaching English as a Foreign Language

#### Department Requirements (6 units)

- ED 105 ABCDEF — Introduction to Teaching English as a Foreign Language ........................................ 6

Students must complete the above courses with a grade of “C” or higher or credit in all courses.

### Education Courses

#### ED 101 — Introduction to Teaching and Learning in K-12 Education
(3) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 lecture

Provides students with an introduction to teaching as a profession. Addresses critical issues in diverse contemporary K-12 classrooms. Students initiate development of their professional portfolio. 10 hours of observation. (*UC Transfer Limit: ED 101 and 104 combined, maximum credit: one course)

#### ED 103 — Introduction to Multicultural/Multilingual Education
(3) — CSU

Corequisite: ED 101
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 lecture

Designed for students interested in pursuing teaching as a career. Provides an introductory survey of the study of multicultural/multilingual education.

#### ED 104 — Introduction to Inclusive Classroom Teaching
(3) — CSU, UC*
Prerequisites: ED 101
Corequisite: ED 291 or 295
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 lecture

Introduces students to the concepts and issues related to teaching diverse learners in today’s K-12 classrooms. Topics include teaching as a profession and career, historical and philosophical foundations of the American education system, contemporary educational issues, special education, content standards and frameworks, teacher performance...
standards, and inclusion education. (*UC Transfer Limit: ED 101 and 104 combined, maximum credit: one course)

ED 105A — Introduction to Teaching English as a Foreign Language (Language Acquisition)
(1) — CSU
Skills Advisories: Eligibility for ENG 98
Hours: 18 lecture
Introduction to methods and principles of teaching English as a foreign language with focus on second language acquisition theories. Intended for students interested in teaching English abroad.

ED 105B — Introduction to Teaching English as a Foreign Language (Methods and Materials)
(1) — CSU
Skills Advisories: Eligibility for ENG 98
Hours: 18 lecture
Introduction to methods and principles of teaching English as a foreign language, with focus on methodology and materials. Intended for students interested in teaching English abroad.

ED 105C — Introduction to Teaching English as a Foreign Language (Cross-cultural Communication)
(1) — CSU
Skills Advisories: Eligibility for ENG 98
Hours: 18 lecture
Introduction to methods and principles of teaching English as a foreign language, with emphasis on culture. Intended for students interested in teaching English abroad.

ED 105D — Introduction to Teaching English as a Foreign Language (English Grammar)
(1) — CSU
Skills Advisories: Eligibility for ENG 98
Hours: 18 lecture
Introduction to methods and principles of teaching English as a foreign language, with a focus on grammar and linguistics. Intended for students interested in teaching English abroad.

ED 105E — Introduction to Teaching English as a Foreign Language (Testing and Assessment)
(1) — CSU
Skills Advisories: Eligibility for ENG 98
Hours: 18 lecture
Introduction to methods and principles of teaching English as a foreign language, with focus on assessment. Intended for students interested in teaching English abroad.

ED 105F — Introduction to Teaching English as a Foreign Language (Educational Technology)
(1) — CSU
Skills Advisories: Eligibility for ENG 98
Hours: 18 lecture
Introduction to methods and principles of teaching English as a foreign language, with technology. Intended for students interested in teaching English abroad.

ED 291 — Practicum in Teaching
(2) — CSU
Corequisite: ED 101
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 72 (18 lecture, 54 lab)
Designed to provide pre-service teachers the opportunity to gain field experience. Students begin to apply skills essential to effective teaching under the guidance of a mentor teacher. Course consists of 45 hours of supervised field experience and 16 hours of lecture. Lecture focuses on topics related to school needs and current trends in education.

ED 295 — Internship in Education
(2-3) — CSU
Prerequisites: ED 101 with a minimum grade of “C”. Limitation on Enrollment: Completion of two courses in Education at SBCC prior to enrolling in an internship course.
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 60-150 lab
Structured Internship program in which students gain experience with community organizations related to the discipline.
Engineering

Degrees
Associate in Arts and Associate in Science: Engineering

Program Description
Engineering involves the application of science, mathematics and technology to solve and analyze a wide range of problems. In today’s society, engineering specialties include civil, electrical, mechanical, chemical, materials, industrial, aeronautical, environmental and computer engineering, among others. In general, engineers participate in the activities which make the resources of nature available in a form beneficial to society and provide systems which will perform optimally and economically.

The Engineering transfer program at Santa Barbara City College provides lower-division engineering coursework equivalent to the first two years of education at a 4-year university leading to a Bachelor of Science Degree. At Santa Barbara City College, all Engineering transfer students major in Engineering and do not declare a specific branch of engineering study until after they have transferred to a 4-year university. An Associate in Science and an Associate in Arts may also be obtained.

Program Student Learning Outcomes
1. Knowledge of the engineering profession, and the engineering analysis and design process.
2. Utilize mathematical analysis and graphical methods to solve engineering problems.
3. Demonstrate proficiency in the application and use of engineering software and laboratory equipment.
4. Develop teamwork and technical writing skills to be successful on an engineering design team.

Department Offices
Mike Young, Chair (PS-119, ext. 2697)
Donald Ion, Supervising Lab Technician (PS-120, ext. 2312)
Marilynn Spaventa, Dean

Faculty and Offices
Nick Arnold (PS-118, ext. 4253)
Doug Folsom (PS-115, ext. 4305)

AS/AA Degree Requirements: Engineering

Department Requirements (48-54 units)
CHEM 155 — General Chemistry I .................................. 5
ENGR 101 — Introduction to Engineering ........................ 2
MATH 150 — Calculus with Analytic Geometry I .......... 5
MATH 160 — Calculus with Analytic Geometry II ....... 5
MATH 200+ — Multivariable Calculus ........................... 4
MATH 210+ — Linear Algebra .................................... 4
PHYS 121 — Mechanics of Solids and Fluids ............. 5
PHYS 122 — Electricity and Magnetism ...................... 5
+MATH 250 satisfies this requirement.

Plus one of the following courses is required:
ENGR 115 — Statics and Strength of Materials or .... 4
   ENGR 117 — Electronic Circuits and ................... 3
   ENGR 117L — Electronic Circuits Laboratory ........ 1

Plus at least 3 additional courses from the following:
CHEM 156 — General Chemistry II ......................... 5
CS 105 — Theory and Practice I ............................... 3
CS 107 — Computer Architecture and Organization .... 3
CS 135 — Programming Fundamentals .................... 3
CS 137 — C Programming ...................................... 3
DRFT 130 — Comp.-Assist. Drafting and Design I .... 5
ENGR 105 — Engineering Graphics .......................... 4
ENGR 115 — Statics and Strength of Materials .......... 4
ENGR 116 — Dynamics ........................................ 4
ENGR 117 — Electronic Circuits and .................... 3
   ENGR 117L — Electronic Circuits Laboratory .......... 1
MATH 220# — Differential Equations ..................... 4
PHYS 123 — Heat, Light and Modern Physics ............. 5
#MATH 260 may also count toward the elective requirement.

Note: A course may not be used to satisfy more than one requirement (double counting not allowed).

College Requirements
For complete information, see “Graduation Requirements” in the Catalog Index.

Planning a Program of Study
Students should work with Santa Barbara City College’s counseling staff in planning semester-by-semester programs of study. Important conditions to be met by students majoring in the Physical Sciences include:
1. The number of units taken each semester is a matter of personal choice. Students who work full-time should take a reduced course load.

2. Many required courses are in sequences—which must be taken in the prescribed order (e.g. MATH 150, 160, 200/210 and 220).

3. Some courses are prerequisites for courses in the sequences (e.g., MATH 150 is a prerequisite for PHYS 121). Some sequences are especially important for the sciences. The sciences do require reading, writing and mathematical skills. Science textbooks are typically at a grade 13-14 reading level. Students deficient in such skills have a unique opportunity at Santa Barbara City College to quickly and efficiently reach the levels required in the majors programs through the following sequences:

**English Sequence**
1. Passing score on placement exam (to) ENG 110 (to) 111; or
2. English Skills (to) ENG 98 (to) 110 (to) 111

**Mathematics Sequence**
1. MATH 95 (to) 111 (to) 137 (to) 138 (to) 150, 160, 200/210, 220; or
2. High school algebra and trigonometry, plus passing score on placement exam (to) MATH 150, 160, 200/210, 220

*Special Note: If you have not been tested for appropriate course placement in respect to the aforementioned sequences, contact the Counseling Center for up-to-date pre-enrollment testing schedule information. You should make sure that you have the necessary skills for each class taken—in order to succeed and/or progress in your chosen major.*

**Chemistry Sequence**
1. CHEM 101 or high school chemistry (to) 155 (to) 156.

**Physics Sequence**
1. PHYS 102 or high school physics (to) 121 (to) 122 or 123 (to) 123 or 122.

**Engineering Sequence**
Most Engineering courses may be taken in any order. However, many Engineering courses have Physics and Mathematics prerequisites and corequisites. Students are encouraged to contact a counselor or faculty adviser for preferred sequences.

**Preparation for Transfer**
Course requirements for transfer vary depending upon the college or university a student wishes to attend. Therefore it is *most important* for a student to consult with his/her counselor and departmental adviser before planning an academic program for transfer.

**Honors and Awards**
The Physics and Engineering Departments select one student each year in each department as an Outstanding Student. Selections are made by faculty in the department areas involved. Selections are based solely on academic excellence and no applications by students are required.

**Engineering Courses**

**ENGR 101 — Introduction to Engineering**
*2 — CSU, UC*

*Skills Advisories: Eligibility for ENG 98 and 103*

*Hours: 36 lecture*

Introduction to the engineering profession, engineering schools and four-year transfer programs. Discussion of methods and history of engineering, as well as guest speakers. Discussion of current areas of interest, including engineering in the Santa Barbara area community. Recommended for all Engineering majors.

**ENGR 102 — Engineering Calculations with MATLAB**
*1*

*Skills Advisories: Eligibility for ENG 98 or 103 and MATH 104 or 107 or 111*

*Hours: 27 (13.5 lecture, 13.5 lab)*

Introduction to engineering calculations using the MATLAB interactive environment software package for performing technical computations. Topics include matrix computation, numerical analysis, graphics and m-files (source code). Designed for people who have no MATLAB experience and who may not have any previous programming experience.
ENGR 105 — Engineering Graphics
(4) — CSU, UC
Prerequisites: MATH 1
Skills Advisories: Eligibility for ENG 98 or 110 or 110H
Hours: 108 (54 lecture, 54 lab)
Graphic/visual communication, emphasizing the engineering design process. Topics include the design process, freehand sketching, multiviews, dimensioning, tolerancing, auxiliary views, sectional views and computer-aided drafting, using CADKEY or AutoCAD software.

ENGR 115 — Statics and Strength of Materials
(4) — CSU, UC
Prerequisites: PHYS 121
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 72 lecture
Study of force systems, statics of particles and rigid bodies, and distributed forces. Analysis of structures, friction, centroids, moments of inertia, Mohr’s circle, shear and bending moment diagrams, and distributed forces.

ENGR 116 — Dynamics
(4) — CSU, UC
Prerequisites: ENGR 115 and MATH 160
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 72 lecture
Study and analysis of motions of particles and rigid bodies. Velocity, acceleration, relative motion, work, energy, impulse and momentum. Vector mathematics where appropriate.

ENGR 117 — Electronic Circuits
(3) — CSU, UC
Prerequisites: MATH 160
Corequisites: PHYS 122
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 lecture
Introduction to electronic circuits. Includes AC and DC circuit analysis, transient and complete response, and operational amplifiers.

ENGR 117L — Electronic Circuits Laboratory
(1) — CSU, UC
Prerequisites: MATH 160
Corequisites: ENGR 117 and PHYS 122
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 lab
Laboratory to accompany ENGR 117. (CAN ENGR 6 [with ENGR 117])
English as a Second Language (ESL)

Program Description
This series of courses is designed to aid the resident and international student, for whom English is a second or foreign language, to master basic communication skills necessary to make reasonable progress in an American community college environment. Students do not need to take the TOEFL and can enroll in regular college courses after studying English. This program offers courses for beginning to advanced students.

Program Student Learning Outcomes
1. Listen to spoken English, understand intended meaning and respond appropriately.
2. Speak in English on a diversity of topics in a way that is intelligible to the listener.
3. Read, comprehend and apply one’s own thinking to a wide range of English texts.
4. Write both narrative and expository papers which fit the intended purpose and audience.
5. Increase both receptive and productive knowledge of English vocabulary.
6. Use appropriate and generally correct grammar, spelling and punctuation when communicating in English.
7. Analyze new information and ideas and contribute original thought to discussions regarding these.
8. Use word-processing programs, language learning software, the Internet and keyboarding skills to facilitate language development.

Assessment/Advisement
All new students take an assessment test which places them in the courses appropriate to their abilities.

Proof of Completion
Students who successfully complete Level 5 Reading and Writing will be awarded a document stating that they have completed the ESL Program at SBCC. Students may also earn this proof of completion by successfully finishing at least one four-unit ESL course and passing the college’s English assessment test.

Faculty and Offices
Robin Goodnough, Chair (ESL-15, ext. 2521)
Priscilla Butler (ESL-20, ext. 3619)
Betsy Casriel (ESL-15, ext. 2928)
Dolores Howard (ESL-21, ext. 2242)
Julie Alpert Wood (ESL-7, ext. 2514)
Federico Peinado (ESL-9, ext. 2489)
Roberto Robledo (ESL-8, ext. 2469)
Marit Ter-Mate Martinsen (ESL-16, ext. 2320)
ESL Adjunct Faculty Office (ESL-13, ext. 2339)
Raquel Alvarado, ESL Student Services Assistant (ESL-2, ext. 2320)
Marilynn Spaventa, Dean

English as a Second Language Courses

ESL 029 — Level 1-3: Writing Skills on Computer
(1)
Hours: 18 lecture
This non-graded hybrid (part-online, part-traditional instruction) course is designed to improve ESL students’ writing and revising skills using computer-assisted methods.

ESL 035 — Levels 1-2: Basic Conversation
(1)
Prerequisites: Qualifying score on SBCC placement exam
Hours: 18 lecture
Designed for beginning ESL students who wish to develop survival speaking and listening skills, including the use of appropriate pronunciation, vocabulary and grammar. Emphasis is on English for daily life.

ESL 040 — Grammar Level 1
(4)
Prerequisites: Qualifying score on SBCC placement exam
Hours: 72 lecture
Designed to provide the beginner with the foundation of English grammar and enable the student to function at least minimally (both orally and in writing) in common English language situations.
ESL 041 — Writing Level 1  
(4)  
Prerequisites: Qualifying score on SBCC placement exam  
Hours: 72 lecture  
Designed for the beginning-level student, course provides a foundation of English writing and the ability to function at least minimally in common English writing situations for academic, work and personal purposes.

ESL 042 — Reading Level 1  
(4)  
Prerequisites: Qualifying score on SBCC placement exam  
Hours: 72 lecture  
Provides the beginning student with basics of English pronunciation, vocabulary development and critical thinking skills, while reading at the beginning level.

ESL 043 — Foundations 1: Listening, Speaking and Grammar  
(6)  
Prerequisites: Qualifying score on SBCC placement exam  
Hours: 108 lecture  
Integrated course designed to provide beginning students with a foundation of English, especially in speaking, listening and basic grammar. Includes vocabulary, reading and writing work, as well.

ESL 044 — Foundations 1: Reading, Writing and Grammar  
(6)  
Prerequisites: Qualifying score on SBCC placement exam  
Hours: 108 lecture  
Integrated course designed to provide the beginning level student with a foundation of English reading, writing, grammar, vocabulary and study skills.

ESL 050 — Grammar Level 2  
(4)  
Prerequisites: ESL 40 or 43 with a “C” or better or qualifying score on SBCC placement exam.  
Hours: 72 lecture  
Designed to provide the intermediate-level student with a continuation of the foundation of English grammar and enable the student to function at an intermediate level (both orally and in writing) in common English language situations.

ESL 051 — Writing Level 2  
(4)  
Prerequisites: ESL 44 with a “C” or better, or qualifying score on SBCC placement exam or ESL 41 with a minimum grade of “P”  
Hours: 72 lecture  
Designed for the high beginning-level student, course provides a foundation of English writing and the ability to function at a high-beginning level in common English writing situations for academic, work and personal purposes.

ESL 052 — Reading Level 2  
(4)  
Prerequisites: ESL 42 or 44 with a “C” or better or qualifying score on SBCC placement exam.  
Hours: 72 lecture  
Designed to provide the intermediate-level student with a basic foundation in phonetic word attack skills, vocabulary development, comprehension skills and basic study skills.

ESL 053 — Foundations 2: Listening, Speaking and Grammar  
(6)  
Prerequisites: ESL 40 or 43 with a “C” or better or qualifying score on SBCC placement exam.  
Hours: 108 lecture  
Provides high beginning to low intermediate students with a foundation of English, especially in speaking and listening.

ESL 054 — Foundations 2: Reading, Writing and Grammar  
(6)  
Prerequisites: ESL 41 with a “P” and ESL 42 or 44 with a “C” or better or qualifying score on SBCC placement exam.  
Hours: 108 lecture  
Provides the high-beginning to low intermediate level student with a foundation of English reading, writing, grammar, vocabulary and study skills.
### ESL 060 — Grammar Level 3
4
*Prerequisites:* ESL 50 or 53 with a “C” or better or qualifying score on SBCC placement exam.
*Hours:* 72 lecture

Provides the intermediate-level student with grammatical structures presented in a context. Emphasis is on self-expression and conveyance of meaning.

### ESL 061 — Writing Level 3
4
*Prerequisites:* ESL 51 with a “P” or ESL 54 with a “C” or better or qualifying score on SBCC placement exam.
*Hours:* 72 lecture

Designed for the intermediate-level student, course provides a foundation of English writing and the ability to function at an intermediate level in written communications for academic, work and personal purposes. Non-graded, transferable.

### ESL 062 — Reading Level 3
4
*Prerequisites:* ESL 52 or 54 with a “C” or better or qualifying score on SBCC placement exam.
*Hours:* 72 lecture

Designed to provide the intermediate-level student with further study in vocabulary development and to increase reading comprehension through the development of specific reading skills.

### ESL 063 — Foundations 3:
Listening, Speaking and Grammar
6
*Prerequisites:* ESL 50 or 53 with a “C” or better or qualifying score on SBCC placement exam.
*Hours:* 108 lecture

Provides intermediate students with a foundation of English, especially in speaking, listening and grammar.

### ESL 064 — Foundations 3:
Reading, Writing and Grammar
6
*Prerequisites:* ESL 51 with a “P” and ESL 52 or 54 with a “C” or better or qualifying score on SBCC placement exam.
*Hours:* 108 lecture

Provides the intermediate-level student with a foundation of English reading, writing, grammar, vocabulary and study skills.

### ESL 070 — Beginning Workplace ESL
2
*Hours:* 36 lecture

Emphasis on commonly used structures, communicative functions and vocabulary of beginning English, as spoken in the workplace.

### ESL 071 — High Beginning ESL for the Workplace
2
*Hours:* 36 lecture

Emphasis on commonly used structures, communicative functions and vocabulary of high beginning English, as spoken in the workplace.

### ESL 096 — Introduction to Early Childhood Education for High-Beginning/Low-Intermediate ESL for the Workplace
3
*Hours:* 54 lecture

Designed for high-beginning to low-intermediate English as a Second Language students who are interested in a career in early childhood education. Emphasis is on linguistic development in the specific context of early childhood education to help students develop the language skills necessary for success in ESL 97.

### ESL 097 — Introduction to Early Childhood Education for Intermediate ESL
3
*Hours:* 54 lecture

Designed for intermediate English as a Second Language students who are interested in a career in early childhood education. Emphasis is on linguistic development in the specific context of early childhood education to help students develop the language skills necessary for success in ESL 98.
ESL 098 — Introduction to Early Childhood Education for High-Intermediate to Advanced ESL (3)
Hours: 54 lecture
Designed for high intermediate to advanced English as a Second Language students who are interested in a career in early childhood education. Emphasis is on linguistic development in the specific context of early childhood education to help students develop the language skills necessary for success in ECE 100.

ESL 100 — ESL Introduction to Early Childhood Education (2)
Hours: 36 lecture
Designed for upper intermediate to advanced English as a Second Language students who are interested in a career in early childhood education. Emphasis is on linguistic development in the specific context of early childhood education to help students develop the language skills necessary for success in ECE 100.

ESL 107 — Intermediate Grammar Review (1) — CSU
Prerequisites: ESL 60 with a “C” or better.
Hours: 18 lecture
Designed for the intermediate to advanced student who has some knowledge of English verb tenses, but who requires additional review and practice. Provides a brief review of verb tenses with individualized extensive practice online.

ESL 113 — Level 1: Beginning Conversation (4) — CSU
Prerequisites: Qualifying score on SBCC placement exam.
Hours: 72 lecture
Designed to acquaint the beginning-level student with the basics of oral skills and listening comprehension to enable the student to function at least minimally in common English-speaking situations.

ESL 117 — Level 2: Intermediate Conversation (4) — CSU
Prerequisites: ESL 113 with a “P” or ESL 43 with a “C” or better or qualifying score on SBCC placement exam.
Hours: 72 lecture
Designed to provide advanced beginning to early Intermediate-level verbal and listening skills.

ESL 121 — Level 3: Intermediate Conversation (4) — CSU
Prerequisites: ESL 117 with a “P” or qualifying score on SBCC placement exam.
Hours: 72 lecture
Designed to provide students with intermediate-level verbal and listening skills.

ESL 122 — Grammar Level 4 (4) — CSU
Prerequisites: ESL 60 with a “C” or better or qualifying score on SBCC placement exam.
Hours: 72 lecture
Designed to provide advanced student with natural language activities which utilize the target grammar. Multiple examples and the use of a variety of materials facilitate students’ deductive learning processes.

ESL 123 — Writing Level 4 (4) — CSU, UC*
Prerequisites: ESL 61 with a “P” or better, or qualifying score on SBCC placement exam or ESL 64.
Hours: 72 lecture
Transferable offering designed to take students from paragraph writing to development of the essay as well as to more effective personal and work-related written communication. (*UC Transfer Limit: ESL courses combined: maximum credit, 8 units; ESL 123 and 132 combined: maximum credit, one course)

ESL 124 — Reading Level 4 (4) — CSU
Prerequisites: ESL 62 with a “C” or better or qualifying score on SBCC placement exam.
Hours: 72 lecture
Designed to provide high intermediate-level student with strategies for improvement of reading comprehension through a study of specific reading techniques, timed readings to increase concentration, and study skills techniques.
**ESL 125 — Level 4: Advanced Conversation**  
(4) — CSU  
**Prerequisites:** ESL 121 with a “P” or qualifying score on SBCC placement exam.  
**Hours:** 72 lecture  
Provides student with advanced ESL verbal and listening skills, as well as skills development in individual speech delivery and criticism.

**ESL 126 — Levels 1-5: Reading and Writing Workshop**  
(2) — CSU  
**Prerequisites:** Qualifying score on SBCC placement exam  
**Hours:** 36 lecture  
Designed as a short two-unit course. The focus is to help students develop reading and writing skills appropriate to the various levels of the program.

**ESL 128 — Levels 1-5: Conversation Workshop**  
(2)  
**Prerequisites:** Qualifying score on SBCC placement exam  
**Hours:** 36 lecture  
Designed to provide ESL student with verbal and listening skills and development of oral language ability.

**ESL 129/SPAN 129 — Bilingual Conversation Exchange**  
(2) — CSU  
**Prerequisites:** ESL 43 and 44  
**Course Advisories:** SPAN 101AB and 101CD or 101 or ESL 40 and 41 and 42  
**Hours:** 36 lecture  
Interactive course for ESL and Spanish students to build conversation skills and foster cultural understanding.

**ESL 130 — Reading Level 5**  
(4) — CSU  
**Prerequisites:** ESL 124 with a “C” or better or qualifying score on SBCC placement exam.  
**Hours:** 72 lecture  
Designed to provide advanced ESL reader with reading comprehension skills, study skills and vocabulary development. Strongly emphasizes skill development for mainstreaming students into the general college curriculum.

**ESL 131 — Grammar Level 5**  
(4) — CSU  
**Prerequisites:** ESL 122 with a “C” or better or ESL 132 with a “P” or qualifying score on SBCC placement exam.  
**Hours:** 72 lecture  
Advanced grammar designed to teach sentence-level grammar, as well as a review of tense system and parts of speech.

**ESL 132 — Writing and Grammar Level 4**  
(6) — CSU, UC*  
**Prerequisites:** ESL 60 with a “C” or better and ESL 61 with “P” or qualifying score on SBCC placement exam.  
**Hours:** 108 lecture  
Transferable course to assist intermediate students in composing and refining writing skills through the analysis of individual writing. Emphasizes critical thinking, with focus on building a portfolio of essays. Includes review of sentence structure and parts of speech. (*UC Transfer Limit: ESL courses combined: maximum credit, 8 units; ESL 123 and 132 combined: maximum credit, one course)

**ESL 133 — Listening and Speaking Skills for College**  
(4) — CSU  
**Prerequisites:** Qualifying score on SBCC placement exam.  
**Course Advisories:** ESL 62 with a minimum grade of “C” or ESL 63 with a minimum grade of “C”  
**Hours:** 72 lecture  
Designed to develop the listening and speaking skills necessary for success in the college environment. Emphasis on listening comprehension strategies, effective note-taking from lectures and oral communication, and presentation skills at a high intermediate to advanced level.

**ESL 134 — Writing Level 5**  
(4) — CSU, UC*  
**Prerequisites:** ESL 123 or 132 with a “P” or qualifying score on SBCC placement exam.  
**Hours:** 72 lecture  
Transferable offering to assist students in further developing essay skills in preparation for transition to non-ESL classes and to improve work and personal written communication. (*UC Transfer Limit: ESL courses combined: maximum credit, 8 units; ESL 134 and 135 combined: maximum credit, one course)
ESL 135 — Writing and Reading Level 5  
(6) — CSU, UC*  
Prerequisites: ESL 123 with “P” and ESL 124 with a “C” or better or ESL 132 with a “P” and ESL 124 with a “C” or better, or qualifying score on SBCC placement exam.  
Hours: 108 lecture  
Non-graded, transferable offering designed to assist the advanced student in further developing writing skills through the analysis of academic texts. Emphasizes critical thinking skills, with a focus on writing expository essays, including argumentation. Includes a review of English sentence structure. (*UC Transfer Limit: ESL courses combined: maximum credit, 8 units; ESL 134 and 135 combined: maximum credit, one course)

ESL 176 — Orientation to College Success for ESL Students  
(0.5)  
Hours: 9 lecture  
In-depth ESL student orientation to the college and what it means to be a college student in the United States. Time management as it relates to course load, as well as the disqualification and probation process, adding/dropping classes, Pass/No Pass grades, student responsibilities and student services information (e.g., financial aid, EOPS, wellness services).

ESL 290 — Work Experience in English as a Second Language  
(1-4) — CSU  
May be taken for 1, 2, 3 or 4 units of credit. Maximum of four (4) units per semester for a maximum of sixteen (16) units.  
Hours: 60-300 lab  
Individual student meetings with instructor to be scheduled; time and day TBA. Laboratory hours are work experience and are individual for each student. Consists of supervised employment for students who are employed on or off campus.
English, Composition and Literature

Degrees and Certificates
Associate in Arts Degree: English
Associate in Arts Degree (AA-T): English for Transfer
Certificate of Achievement: Creative Writing:
  General Emphasis
Certificate of Achievement: Creative Writing:
  Professional Writing Emphasis

Program Description
In our information-based society, reading comprehension and writing skills are essential. The English Program offers a rich and varied education in these vital areas of literacy, serving the individual student, the academic community and society at large.

The pre-freshman course (ENG 98) and the freshman English courses (ENG 110 and 111) provide students with a foundation in college writing and research through the study of nonfiction, fiction, drama and poetry, while emphasizing the development of critical thinking skills. In order to further develop understanding of cultural traditions and to stimulate students' imaginations, the department offers literature courses ranging from surveys of British, American, world and sacred literature, to introductory courses in poetry, Shakespeare, contemporary fiction and drama. These sophomore literature courses provide enrichment to any student and fulfill the General Education requirements for students enrolled in degree and transfer programs.

Also available to students who have completed freshman composition are courses in creative writing, technical writing and, when possible, advanced composition, each emphasizing development of different writing skills.

The objective of the English Department is to provide each student with the opportunity to develop his or her own reading, writing, research and critical thinking abilities for successful transfer to universities and for functioning in society and the job market.

Program Student Learning Outcomes
1. Analyze college-level texts, both non-fiction and fiction.
2. Write coherent thesis-driven prose.
3. Gather, evaluate and synthesize information to produce a correctly-documented research paper.
4. Revise written work as part of the writing process.
5. Describe and evaluate literary elements and genres.

Department Office
English Office (IDC-317, ext. 2340)
Alice Perez, Dean (ext. 2354)

Faculty and Offices
Barbara Bell, Chair (IDC-305, ext. 2475)
Homer Arrington (IDC-371, ext. 3061)
Daniel Barlow (ECC-4/Office 7)
Jennifer Baxton (IDC-304, ext. 3895)
Sarah Boggs (ECOC-3/Office 6)
Bonny Bryan (IDC-314, ext. 2709)
Chella Courington (IDC-319, ext. 2415)
Melanie Eckford-Prossor (IDC-311, ext. 3014)
Charles Grogg (IDC-309, ext. 3490)
Christopher Johnston (IDC-308, ext. 4712)
Melissa Menendez (IDC-306, ext. 4743)
Jody Millward (IDC-326, ext. 2736)
Jordan Molina (ECC-3/Office 7)
Kathy Molloy (IDC-373, ext. 2566)
Kimberly Monda (IDC-324, ext. 2523)
Clara Oropeza (IDC-307, ext. 4711)
Katrina Perez (IDC-374, ext. 2324)
David Starkey (ECOC-4/Office 5, ext. 2345)
Sandra Starkey (IDC-320, ext. 2735)
Michael Walker (IDC-323, ext. 2706)
Ann Wilkinson (IDC-310, ext. 2551)

AA Degree Requirements for English

Department Requirements (23 units)
ENG 110 — Composition and Reading or ENG 110H — Composition and Reading, Honors ............ 3
ENG 111 — Critical Thinking and Composition through Literature or ENG 111H — Critical Thinking and Composition through Literature, Honors .............................................. 3
Plus nine (9) units from the following:
ENG 221 — Survey of British Literature* .................. 3
ENG 222 — Survey of British Literature* or
   ENG 222H — Survey of British Literature, Honors* .... 3-4
ENG 225 — American Literature* ............................ 3
ENG 226 — American Literature* or
   ENG 226H — American Literature, Honors* ......... 3-4
ENG 231 — World Literature* .............................. 3
ENG 232 — World Literature* .............................. 3
ENG 236 — Sacred Literature, Eastern Texts ......... 3
ENG 237 — Sacred Literature, Western Texts ....... 3
ENG 240 — Contemporary Fiction ....................... 3
ENG 241 — Contemporary Women Writers .............. 3
ENG 242 — Contemporary Dramatic Literature ....... 3
ENG 251 — Introduction to Poetry ....................... 3
ENG 261 — Literature and Film ........................... 3
ENG 262 — Shakespeare ................................... 3

*Strongly recommended.

Selected 8 units from the following:
ART 103 — History of Art, Prehistoric to Gothic or
   ART 103H — History of Art, Prehistoric to
      Gothic, Honors ........................................ 3-4
ART 104 — History of Art, Renaissance to Modern or
   ART 104H — History of Art, Renaissance to
      Modern, Honors ......................................... 3-4
BLST 113 — African-American and
   Afro-Caribbean Literature in the U.S.................. 3
CHST 115 — Introduction to Mexican Literature ....... 3
ENG 270 — Introduction to Creative Writing ............. 3
HIST 101 — History of the U.S. to 1865 .................... 3
HIST 102 — History of U.S. since 1865 or
   HIST 102H — History of U.S. since 1865, Honors .... 3-4
HIST 103 — History of Western Civilization ............ 3
HIST 104 — History of Western Civilization or
   HIST 113H — History of Western Civilization,
      Honors .................................................. 3-4
PHIL 100 — Introduction to Philosophy or
   PHIL 100H — Introduction to Philosophy, Honors .... 3-4
PHIL 200 — History of Philosophy: Ancient and Medieval 3
PHIL 201 — History of Philosophy: Modern ............... 3

PSY 100 — General Psychology or
   PSY 100H — General Psychology, Honors ............ 3-4
TA 103 — Theatre Appreciation ............................ 3

A foreign language is strongly recommended.

Graduation Requirements
1. Achieve a minimum grade of “C” in all English courses used to complete the AA degree in English;
2. Complete all department requirements with a cumulative grade point average (GPA) of 2.0 or better;
3. Complete at least 18 units of General Education Requirements (Areas A-D of the SBCC General Education pattern);
4. Complete the SBCC Institutional Requirements (Area E);
5. Complete the Information Competency Requirement (Area F);
6. Complete a total of 60 degree-applicable units (SBCC courses numbered 100 and higher);
7. Maintain a cumulative GPA of 2.0 or better in all units attempted at SBCC; and
8. Maintain a cumulative GPA of 2.0 or better in all college units attempted.

Candidates for an Associate Degree are required to complete 45 units at SBCC, or complete the last 15 units in residence at SBCC. Candidates for an Associate Degree are also required to complete at least 20% of the department requirements in residence at SBCC. Pass/No Pass grading is not permitted in a course within a student’s major area of study.

Certificate of Achievement in Creative Writing
There are two emphases in earning the Creative Writing Certificate. The General Writing emphasis will enhance students’ abilities as creative writers and help them market and publish their work. The Professional Writing emphasis focuses on applied areas of study, such as screenwriting, technical writing, journalism and non-fiction.

Requirements: The Certificate in Creative Writing requires a total of 18 units. Students must take both core courses (6 units), then 4 courses from their selected track—Creative Writing Emphasis or Professional Writing Emphasis (12 units), with the possibility of substituting two of those courses from the elective list (see below). Each emphasis has a list of recommended electives. During the semester that a student receives the Creative Writing Certificate,
she or he should present a public reading of no less than twenty minutes as arranged with an English Department faculty member who regularly teaches creative writing courses.

Department Requirements (18-19 units)
Core Course (6 units)
ENG 110 — Composition and Reading or
   ENG 110H — Composition and Reading, Honors........3
ENG 270 — Introduction to Creative Writing..................3

Plus select one of the following emphases:
I. General Emphasis
Selected 12 units from the following:
ENG 271D — Creative Writing: Drama..........................3
ENG 271F — Creative Writing: Fiction..........................3
ENG 271NF/JOUR 271 — Creative Writing: Nonfiction......3
ENG 271P — Creative Writing: Poetry..........................3
Note: Students may substitute two of the courses from the list of electives below for two of these four General Emphasis courses. (See approved list of electives to follow.)

II. Professional Writing Emphasis
Selected 12 units from the following:
ENG 173/FS 173 — Screenwriting I..............................3
ENG 181/CIS 181 — Technical and Professional Writing....3
ENG 271NF/JOUR 271 — Creative Writing: Nonfiction......3
JOUR 101 — Reporting/Writing I ................................3
Note: Students may substitute two of the courses from the list of electives below for two of the these four Professional Writing Emphasis courses. (See approved overall list of electives to follow.)

General and Professional Writing Overall Electives
ENG 221 — Survey of British Literature* ......................3
ENG 222 — Survey of British Literature* ......................3
ENG 222H — Survey of British Literature* ..................3
ENG 225 — American Literature*................................3
ENG 226 — American Literature* or..........................3
   ENG 226H — American Literature, Honors*.............3
ENG 231 — World Literature* ..................................3
ENG 232 — World Literature* ..................................3
ENG 236 — Sacred Literature, Eastern Texts* ..............3
ENG 237 — Sacred Literature, Western Texts* ..............3
*+ENG 240 — Contemporary Fiction .........................3
*+ENG 241 — Contemporary Women Writers .................3
*+ENG 242 — Contemporary Dramatic Literature ..........3
+ENG 251 — Introduction to Poetry .........................3
+ENG 261 — Literature and Film ................................3
ENG 262 — Shakespeare* .....................................3
FS 174 — Screenwriting II ....................................3

*Recommended Electives for General Emphasis
+Recommended Electives for Professional Writing Emphasis

Students must complete all department requirements with a "C" or better in each course. Candidates for a Certificate of Achievement are required to complete at least 20% of the department requirements through SBCC.

Requirements for AA-T Degree—English for Transfer
The objective of the English Department is to provide each student with the opportunity to develop his or her own reading, writing, research and critical thinking abilities for successful transfer to universities and for functioning in society and the job market.
The Associate in Arts degree in English for Transfer will provide the foundational knowledge in English to students who want to earn a Baccalaureate Degree in English at any of the CSU campuses.

Degree Requirements
Complete 60 CSU-transferable units including general education, major requirements and CSU-transferable electives as follows:

I. General Education
Complete one of the following patterns:
• Intersegmental General Education Transfer Curriculum "IGETC" for CSU (38 semester units)
• California State University General Education Breadth pattern (40 semester units)

II. Major
Complete 18-22 units as outlined below with a "C" or better in each course. Pass/No Pass grading is not permitted in a course within a student’s major area
of study. The courses completed for the major may also be used to fulfill General Education areas on the IGETC or the CSU GE Breadth.

**Required Core (6 units)**

ENG 111* — Critical Thinking and Composition through Literature or ENG 111H* — Critical Thinking and Composition through Literature, Honors ........................................ 3
ENG 200 — Introduction to Literature ........................................ 3

**List A. Select two courses from the following (6-8 units)**

ENG 221*— Survey of British Literature ................................. 3
ENG 222* — Survey of British Literature or ENG 222H* — Survey of British Literature, Honors ................................................ 4
ENG 225* — American Literature ........................................... 3
ENG 226* — American Literature or ENG 226H* — American Literature, Honors .......... 4
ENG 231* — World Literature .................................................. 3
ENG 232* — World Literature .................................................. 3

**List B. Select one course from the following (3 units)**

Any List A or B course not selected above or
BLST 113* — Afro-Amer and Afro-Caribbean Lit in the U.S. .................................................. 3
CHST 113* — Chicano Literature ........................................... 3
ENG 240*— Contemporary Fiction ......................................... 3
ENG 242* — Contemporary Dramatic Literature .......... 3
ENG 251 — Introduction to Poetry ........................................... 3
ENG 262 — Shakespeare ......................................................... 3
ENG 270 — Introduction to Creative Writing ................. 3
ENG 271D — Creative Writing: Drama .................................. 3
ENG 271F — Creative Writing: Fiction .................................. 3
ENG 271NF — Creative Writing: Non-Fiction or JOUR 271 — Creative Writing: Non-Fiction............... 3
ENG 271P — Creative Writing Poetry .................................... 3
NATA 113* — The Indian in Literature: Fact and Fiction .............................................. 3

**LIST C. Select one course from the following (3 units)**

Any List A or B course not selected above or
American Sign Language 101*, 102* 103*, 104*
Anthropology 104* (C-ID ANTH 130)
Arabic 101*, 102*
Chicano Studies 114*, 115*
Chinese 101*, 102*, 103*
English 173 (or Film Studies 173), 181 (or Computer Information Systems 181), 236*, 237*, 241*, 261*
French 101*, 102*, 103*, 104*
German 101*, 102*, 103*, 104*
Hebrew 101*, 102*
Italian 101* 102*, 103*, 104*
Japanese 101*, 102*, 103*, 104*
Journalism 101
Korean 101*, 102*
Latin 101*, 102*
Spanish 101*, 102*, 103*, 104*, 146*, 147*, 132*, 133*, 134*, 150*, 160*
Theatre Arts 103* (C-ID THTR 111), 107*, 108*
*These courses fulfill an IGETC and/or a CSU GE Breadth pattern requirement. Visit www.assist.org or http://articulation.sbcc.edu for a completed list of IGETC and CSU GE Breadth requirements.

**Preparation for Transfer**

Course requirements for transfer vary depending upon the college or university a student wishes to attend. Therefore, it is most important for a student to consult his/her counselor before planning an academic program for transfer. Information sheets for majors, outlining transfer requirements, are available in the Transfer Center.

**Honors and Awards**

**Outstanding English Student**

Each spring at the Awards Reception, one student is honored as the outstanding English major. Selection is made by faculty on the basis of academic excellence.

**Emmons Poetry Prize**

The Creative Writing Program also receives a generous annual donation from Robert Emmons for the Emmons Poetry Prize. First place receives $1,000; second place receives $500. Contest rules are made available at the beginning of the Spring Semester of each academic year.
William Olivarius Scholarship
In 1982, a generous endowment from the late William Olivarius enabled the English Department to offer scholarships to Santa Barbara City College English majors. Scholarships may be awarded each semester on the basis of academic excellence and a competitive essay. To qualify for an award, a student must be a declared English major, be enrolled in 12 units during the time the scholarship is applied and maintain an overall 3.0 grade point average. Eligibility to apply is limited to continuing students at Santa Barbara City College, i.e., those planning to enroll in a minimum of 12 units at SBCC for the following semester. Applications are available from English instructors and the English Center Office, Room IDC-317.

John and Mary Minassian Memorial Scholarship in Literature
Mr. Al Jarmagian has endowed a scholarship in honor of John and Mary Minassian. It will be awarded each year on the basis of merit and a competitive essay. To qualify for an award, a student must be an English major, be enrolled in 12 units and have an overall 3.0 grade point average. Applications are available from the English Center Office, Room IDC-317.

Special Programs and Courses
Placement and Testing
A placement and testing program is conducted each semester for matriculating students and all students who wish to enroll in English or English Skills classes. Since students’ success in college studies is much higher when they enroll in the courses that best suit their needs and abilities, testing is mandatory for placement in reading and composition classes.

All new students at Santa Barbara City College, except those who offer proof of completing ENG 110 or its equivalent at another college, should plan to take the English placement exam as early as possible before registering. Placement tests are also available in math, and, like those in English, are required of students enrolling in math courses and recommended for all others. Testing dates are posted on campus and listed in the enrollment checklist, and are available at the Assessment Office, and online at www.sbcc.edu/assessment.

Cambridge or London Semester Abroad
The college offers a program in Cambridge or London, England, consisting of 12-15 units of transferable courses in English, art, history and political science. Students live with families or in apartments; field trips to London/Cambridge (depending upon the program), Stratford, Oxford, Bath, Stonehenge, York and Edinburgh are included. Information on the precise courses offered, dates and costs is available through the Study Abroad Office, (805) 965-0581, ext. 2494.

Guest Speakers
When local and visiting writers are available, the English Department offers opportunities for English majors, and other students interested in literature, to attend lectures/ readings by these writers. These gatherings include a presentation by the guest, discussion and an opportunity for socializing with others of shared interest.

The Writing Center
The Writing Center, located in the LRC, offers workshops and tutorial assistance to students from all program disciplines.

Program Cost and Outcome
For planning purposes, the below webpages provide information on the cost of attendance, program length (assuming a student attends full-time), financing options and historical student completion rates:

Creative Writing: General Emphasis
www.sbcc.edu/financialaid/gainfulemployment/Creative%20Writing%20General%20Emphasis.htm

Creative Writing: Professional Emphasis
www.sbcc.edu/financialaid/gainfulemployment/Creative%20Writing%20Professional%20Emphasis.htm

English, Composition and Literature Courses
Important Note: All students wishing to enroll in English composition classes must complete placement examinations prior to registration. Appointments can be made in the Assessment Office.

ENG 088 — Fundamentals of Composition - Intensive (6)
Prerequisites: ENG 65 or ESL 134 with a minimum grade of “P” or ESL 135 or ENG 60 with a minimum grade of “P” or qualifying score on SBCC placement exam.
Hours: 108 lecture
Designed to provide an immersion experience in composition, with additional readings for students who qualify for course entrance with a high placement in ENG 80. Students must achieve a passing portfolio to enter English 98/110.

**ENG 089 — College Composition Workshop**  
(2)  
Corequisites: ENG 110 or 110H (concurrent)  
Hours: 36 lecture  
Intensive course in the skills needed to analyze college-level texts and write college-level essays. Linked to a corequisite, English 110.

**ENG 098 — Fundamentals of Composition**  
(5)  
Prerequisites: ENG 80 with a minimum grade of “P” or ENG 88 with a minimum grade of “C” or qualifying score on SBCC Placement Exam.  
Skills Advisories: Eligibility for ENG 103  
Hours: 90 lecture  
Intensive course in composition, emphasizing development of ideas into organized essays which are correct in grammar and mechanics. Graded Pass/No Pass.

**ENG 110 — Composition and Reading**  
(3) — CSU, UC*  
Prerequisites: ENG 98 with a “P” and ENG 70 with a “C” or ENG 88 and 70 with a “C” or ENG 89 with a “P” and ENG 70 with a “C” or qualifying score on SBCC placement exam.  
Corequisites: ENG 120  
Hours: 54 lecture  
Practice in expository composition based on critical reading of short works and one book-length work. Develops skills in writing effectively, reading carefully and thinking clearly. (*UC Transfer Limit: ENG 110 and 110H combined: maximum credit, one course)

**ENG 110H — Composition and Reading, Honors**  
(3) — CSU, UC*  
Prerequisites: ENG 98 with a “P” and ENG 70 with a “C” or ENG 88 and 70 with a “C” or ENG 89 with a “P” and ENG 70 with a “C” or qualifying score on SBCC placement exam.  
Corequisites: ENG 120  
Limitation on Enrollment: Honors Program Acceptance  
See “Honors Program” section of this Catalog.  
Hours: 54 lecture  
First semester of freshman English for students enrolled in the Honors Program. Expository writing based on critical reading and coordinated with other Honors courses. Designed to improve students’ skills in writing effectively, reading carefully and thinking critically. (*UC Transfer Limit: ENG 110 and 110H combined: maximum credit, one course)

**ENG 111 — Critical Thinking and Composition through Literature**  
(3) — CSU, UC*  
Prerequisites: ENG 110 or 110H with a “C” or better.  
Hours: 54 lecture  
Study of critical thinking and composition, combined with instruction in literature. (*UC Transfer Limit: ENG 111 and 111H combined: maximum credit, one course)

**ENG 111H — Critical Thinking and Composition through Literature, Honors**  
(3) — CSU, UC*  
Prerequisites: ENG 110 or 110H, with a “C” or better.  
Limitation on Enrollment: Honors Program Acceptance  
Hours: 54 lecture  
Study of critical thinking and composition, combined with instruction in literature. For students enrolled in the Honors Program at SBCC. (*UC Transfer Limit: ENG 111, 111H combined: maximum credit, one course)

**ENG 120 — College Research Skills**  
(1) — CSU, UC*  
Skills Advisories: Eligibility for ENG 110 or 110H  
Course Advisories: COMP 103 and 123  
Hours: 18 lecture  
Through self-paced activities, students develop the research and documentation skills necessary to write a successful research paper in ENG 110, as well as in other college courses. Students practice a range of research skills, including narrowing a topic, finding materials in libraries and on the World Wide Web, evaluating sources, note-taking, employing quotation, paraphrase or summary, organizing and synthesizing material, and using the MLA and APA style of citation. This class is available in online stand-alone format. (*UC Transfer Limit: ENG 120 and LIB 101 combined: maximum credit, one course)
ENG 173/FS 173 — Screenwriting I  
(3) — CSU, UC*  
Prerequisites: ENG 70 and 98 or qualifying score on SBCC placement exam.  
Hours: 72 (45 lecture, 27 lab)  
Study of elements of dramatic writing for the cinema: the three-act structure, character delineation and motivation, conflict development and pacing, dialog and subtext, and unifying the message. Students analyze feature films and television screenplays for their structure, pacing and characterization; write scenes in correct format; complete a treatment for a feature film or television. (*UC Transfer Limit: ENG 173/FS 173 and FS 174 combined: maximum credit, one course)

ENG 181/CIS 181 — Technical and Professional Writing  
(3) — CSU  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture  
Writing course designed to teach professional-level written communication in technical fields.

ENG 200 — Introduction to Literature  
(3) — CSU, UC  
Prerequisites: ENG 110 or 110H  
Course Advisories: English 111 or 111H  
Hours: 54 lecture  
Introduces representative works from major genres (poetry, drama, and short fiction), develops students’ close reading and analytical writing skills, and promotes critical understanding of the cultural, historical, and aesthetic qualities of literature.

ENG 221 — Survey of British Literature  
(3) — CSU, UC  
Prerequisites: ENG 110 or 110H with a “C” or better  
Course Advisories: ENG 111 or 111H  
Hours: 54 lecture  
Chronological survey of British literature from Anglo-Saxon times to the end of the 18th century.

ENG 222 — Survey of British Literature  
(3) - CSU, UC*  
Prerequisites: ENG 110 or 110H or 110HG with a minimum grade of “C”  
Course Advisories: ENG 111 or 111H  
Hours: 54 lecture  
Survey of British literature during the 19th, 20th and 21st centuries, including fiction, poetry, drama and essays. (*UC Transfer Limit: ENG 222, 222H combined: maximum credit, one course)

ENG 222H — Survey of British Literature, Honors  
(4) — CSU, UC  
Prerequisites: ENG 110 with a minimum grade of “C” or ENG 110H with a minimum grade of “C”.  
Hours: 72 lecture  
Survey of British literature during the 19th, 20th and 21st centuries, including fiction, poetry, drama and essays. (*UC Transfer Limit: ENG 222, 222H combined: maximum credit, one course)

ENG 225 — American Literature  
(3) — CSU, UC  
Prerequisites: ENG 110 or 110H with a minimum grade of “C”  
Course Advisories: ENG 111 or 111H  
Hours: 54 lecture  
Study of American imagination and culture through representative works of literature, from the colonial period through the Civil War. Explores the historic diversity in American literature, the ways in which authors appropriate literary conventions and genres to create an authentic American voice, and the presence of these trends in contemporary American culture.

ENG 226 — American Literature  
(3) — CSU, UC*  
Prerequisites: ENG 110 or 110H with a minimum grade of “C”  
Course Advisories: ENG 111 or 111H  
Hours: 54 lecture  
Intensive study of post-Civil War American culture through a reading of its major authors. Included are novels, short stories, poetry and essays by Americans from diverse backgrounds. (*UC Transfer Limit: ENG 226 and 226H combined: maximum credit, one course)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit</th>
<th>Transferable</th>
<th>Prerequisites</th>
<th>Course Advisories</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
</table>
| ENG 226H   | American Literature, Honors                      | (4)    | CSU, UC*     | ENG 110 or 110H with a minimum grade of “C”     | Limitation on Enrollment: Admission to Program* |       | Prerequisites: ENG 110 or 110H with a minimum grade of “C”.  
Course Advisories: ENG 111 or 111H  
Hours: 72 lecture  
Intensive study of post-Civil War American culture through a reading of its major authors. Included are novels, short stories, drama and poetry by Americans from varied backgrounds. (*UC Transfer Limit: ENG 226 and 226H combined: maximum credit, one course) |
| ENG 231    | World Literature                                 | (3)    | CSU, UC      | ENG 110 or 110H with a “C” or better            | Course Advisories: ENG 111 or 111H |       | Study of Greek and Roman mythology, the Old and New Testaments, Homeric epics, Greek drama, Aristotle’s Poetics and Dante’s The Divine Comedy.                                                                                                                                       |
| ENG 232    | World Literature                                 | (3)    | CSU, UC      | ENG 110 or 110H with a “C” or better            | Course Advisories: ENG 111 or 111H |       | Representative works of Western literature, from the Renaissance through the 20th century.                                                                                                                                                                                                                                                  |
| ENG 236    | Sacred Literature, Eastern Texts                 | (3)    | CSU, UC      | ENG 110 or 110H with a minimum grade of “C”     | Course Advisories: ENG 111 or 111H |       | Study of representative works of literature considered sacred by Eastern traditions, such as the Tao Te Ching, Confucius’ Analects, the Buddha’s Dhammapada, the Hindu Bhagavad Gita, Upanishads and Vedas.                                                                                                    |
| ENG 237    | Sacred Literature, Western Texts                 | (3)    | CSU, UC      | ENG 110 or 110H with a “C” or better            | Course Advisories: ENG 111 or 111H |       | Study of representative works of literature considered sacred by Western traditions, such as the Tanak, Christian New Testament, other Orthodox and Gnostic texts, the Qur’an, the Egyptian Book of the Dead, and Native American sacred tales.                                  |
| ENG 240    | Contemporary Fiction                             | (3)    | CSU, UC      | ENG 110 or 110H with a minimum grade of “C”     | Course Advisories: ENG 111 or 111H |       | Reading of representative works of 20th century fiction. Exploration in depth of representative fiction with such themes as alienation, spiritual search, identity quests, etc.                                                                                                           |
| ENG 241    | Contemporary Women Writers                        | (3)    | CSU, UC      | ENG 110 or 110H with a minimum grade of “C”     | Course Advisories: ENG 111 or 111H |       | Representative works of fiction, poetry and drama written by contemporary women writers.                                                                                                                                                                                                                                                     |
| ENG 242    | Contemporary Dramatic Literature                  | (3)    | CSU, UC      | ENG 110 or 110H with a minimum grade of “C”     | Course Advisories: ENG 111 or 111H |       | Study of representative works of contemporary dramatic literature, emphasizing Pulitzer Prize-winning plays and issues reflecting current culture.                                                                                                                                                                                                 |
ENG 251 — Introduction to Poetry  
(3) — CSU, UC  
Prerequisites: ENG 110 or 110H with a "C" or better  
Course Advisories: ENG 111 or 111H  
Hours: 54 lecture  
Representative selections of English and American poetry of various periods. Designed to acquaint the college transfer student with significant British and American poetry of all periods, including the study of structural elements of the art form of poetry, as well as an investigation of the enduring themes of mankind voiced through the art of poetry.

ENG 261 — Literature and Film  
(3) — CSU, UC  
Prerequisites: ENG 110 or 110H with a minimum grade of "C".  
Hours: 54 lecture  
Study of film adaptation of literary works which examines the aesthetic uniqueness and limitations of literary and cinematic forms. Focus on film and literary aesthetics and techniques. Students read literary works of various genres (e.g. short stories, novels and plays) and view film adaptations of these works.

ENG 262 — Shakespeare  
(3) — CSU, UC  
Prerequisites: ENG 110 or 110H, with a minimum grade of "C".  
Course Advisories: ENG 111 or 111H  
Hours: 54 lecture  
Study of the most representative examples of Shakespeare’s four dramatic genres and sonnets.

ENG 270 — Introduction to Creative Writing  
(3) — CSU, UC  
Prerequisites: ENG 110 or 110H with a minimum grade of "C"  
Course Advisories: Course Advisories: ENG 111 or 111H  
Hours: 54 lecture  
Study and practice in the art of creating fiction, poetry, drama and other literary forms.

ENG 271D — Creative Writing: Drama  
(3) — CSU, UC  
Prerequisites: ENG 110 or 110H with a minimum grade of "C"  
Course Advisories: ENG 270 and 111 or 111H  
Hours: 54 lecture  
Advanced study and practice in playwriting.

ENG 271F — Creative Writing: Fiction  
(3) — CSU, UC  
Prerequisites: ENG 110 or 110H  
Course Advisories: ENG 270 and 111 or 111H  
Hours: 54 lecture  
Advanced study and practice in fiction writing.

ENG 271NF/JOUR 271 — Creative Writing: Nonfiction  
(3) — CSU, UC  
Prerequisites: ENG 110 or 110H  
Course Advisories: ENG 111 or 111H  
Hours: 54 lecture  
Advanced study and practice of creative writing in non-fiction genres.

ENG 271P — Creative Writing: Poetry  
(3) — CSU, UC  
Prerequisites: ENG 110 or 110H or 110HG with a "C" or better  
Course Advisories: ENG 270 and 111 and 111H  
22 hours of class; 10 hours of attendance at the Santa Barbara Writers’ Conference. Offered at intervals.  
Hours: 54 lecture  
Advanced study and practice in poetry writing. Students create and revise their own poems, and develop the capacity to analyze and assess poetry written by themselves and others.

ENG 295 — Internship in English  
(2-4) — CSU  
Prerequisites: ENG 110 with a minimum grade of "C" or ENG 110H with a minimum grade of "C".  
Limitation on Enrollment: Other: Completion of two courses (in applicable discipline) at SBCC prior to enrolling in an Internship course.  
Hours: 108-273 lab  
Structured internship program in which students gain experience with community organizations related to the discipline.
ENG 299 — Independent Study in English
(1-3) — CSU

Prerequisites: Eligibility for ENG 110 or 110H
Limitation on Enrollment: Student must have completed a minimum of twelve units at SBCC, with a 2.5 GPA, and a minimum of six (6) units with a 3.0 GPA in English.

Hours: 48-144 lab

Designed to offer the individual student an opportunity to explore an English subject in depth. Specific course requirements are formulated by the student and instructor. Regular meetings with instructor are required. Course may be taken for 1-3 units of credit; each unit requires student to devote approximately three hours per week to his/her project.
English Skills

Program Description
The English Skills Department guides students through a sequence of reading and writing courses that prepares them for success in subsequent college coursework, in their chosen vocation, and in daily literacy needs. The department offers three levels of reading and two levels of writing. All of our classes emphasize critical thinking and study skills that are essential to college success.

Program Student Learning Outcomes

English 60
Present verbal and written interpretations of assigned readings, using textual evidence.
   - Apply active reading and study strategies, using assigned readings with teacher modeling.
   - Demonstrate literal and inferential comprehension of assigned readings.

English 65
Apply the stages of the writing process to written work: Pre-write, write, revise and edit, using instructional feedback.
   - Develop organized paragraphs, supported with evidence from class texts, and personal experience or observation.
   - Develop essays using a controlling idea.

English 70
Present interpretations of assigned readings, using textual evidence.
   - Apply active reading and study strategies to assigned readings with limited teacher modeling.
   - Analyze, summarize and evaluate assigned readings.

English 80
Apply the stages of the writing process to written work: Pre-write, write, revise and edit, using instructional feedback.
   - Develop organized paragraphs supported with evidence from class texts, and personal experience or observation.
   - Create a thesis that controls the content of an essay.

English 103
Present verbal and written interpretations of assigned readings, using textual evidence.
   - Apply active reading and study strategies, using assigned readings independently.
   - Analyze, summarize and evaluate assigned readings, including readings in which authors represent multiple perspectives.

Department Offices
Monica DiVito, Chair (ECOC-3, ext. 3620)
Sarianna Fry, Secretary (IDC-317, ext. 2340)
Alice Perez, Dean (A-118, ext. 4154)

Faculty and Offices
Denise Bacchus (ECOC-4, Office 7, ext. 3062)
Annette Cordero (IDC-372, ext. 2863)
Anita Cruse (IDC-315, ext. 4714)
Jason File (IDC-327A)
Kathy Molloy (IDC-373, ext. 2566)
Michele Peterson (IDC-322, ext. 2445)
Margaret Prothero (IDC-316, ext. 2687)
Gail Tennen (IDC-321, ext. 2414)
Eileen Vlcek-Scamahorn (ECOC-3, #2)
Sheila Wiley (ECC-33, ext. 5156)

English Skills Courses

ENG 060 — Basic Reading and Study Skills (5)
Prerequisites: Qualifying score on SBCC placement exam. Hours: 90 lecture
Non-transferable developmental reading course intended for students who demonstrate the need for intensive work in critical reading, comprehension, study skill and vocabulary development. Students must receive credit for ENG 60 to be eligible for ENG 70. Graded Pass/No Pass.
ENG 065 — Basic Skills: Writing
(5)
Prerequisites: Qualifying score on SBCC placement exam.
Hours: 90 lecture
Non-transferable basic writing course designed to promote competence and fluency. Students must receive credit for ENG 65 to be eligible for ENG 80. Graded Pass/No Pass.

ENG 068 — Introduction to Reading, Composition and Study Skills - Intensive
(6)
Prerequisites: Qualifying score on SBCC placement exam.
Hours: 104 lecture
Non-transferable intensive developmental reading and writing course designed to promote competence and fluency. Graded Pass/No Pass.

ENG 070 — Effective Reading and Study Skills Techniques
(5)
Prerequisites: ENG 60 with a “P” or qualifying score on SBCC placement exam.
Hours: 90 lecture
Non-transferable developmental reading course intended for students who demonstrate the need for intensive work in critical reading, comprehension, study skills and vocabulary development. Students must receive credit for ENG 70 to be eligible for ENG 103. Course is also available in hybrid online format. Letter grade.

ENG 075 — Fundamentals of Reading and Composition - Intensive
(6)
Prerequisites: ESL 134 or ENG 60 and 65 or Placement into ENG 70 and 80 based on SBCC placement exam, ESL 135
Hours: 108 lecture
Non-transferable intensive developmental reading and writing course designed to promote competence and fluency in critical reading, comprehension, written composition and study skills.

ENG 080 — Effective Writing Techniques
(5)
Prerequisites: ENG 65 with a minimum grade of “P” or qualifying score on SBCC placement exam.
Hours: 90 lecture
Non-transferable developmental writing course designed to promote competence and fluency in written composition. Students must receive credit for ENG 80 to achieve eligibility for ENG 89. Course is also available in hybrid online format. Graded Pass/No Pass.

ENG 085 — Creative Writing Skills
(3)
Skills Advisories: ENG 65 with a minimum grade of “P”
Hours: 54 lecture
Introductory study and practice in the art of creating elements of fiction, poetry, drama and other literary forms.

ENG 088 — Fundamentals of Composition - Intensive
(6)
Prerequisites: ENG 65 with a minimum grade of “P” or ESL 134 with a minimum grade of “P” or ESL 135 with a minimum grade of “P” or ENG 60 with a minimum grade of “P” or qualifying score on SBCC placement exam
Hours: 108 lecture
Designed to provide an immersion experience in composition, with additional readings for students who qualify for course entrance with a high placement in ENG 80. Students must achieve a passing portfolio to enter ENG 89/110.

ENG 103 — Improvement of College Reading and Study Skills
(5) — CSU
Prerequisites: ENG 70 with a minimum grade of “C”, or qualifying score on SBCC placement exam.
Hours: 90 lecture
Reading course to improve critical thinking, comprehension, vocabulary and study skills. Various texts, including book-length works and textbook selections from various content areas, are read and analyzed. Also offered in hybrid online, and fully online formats. Letter grade.
ENG 119A — CAP Core Literacies: Reading and Writing within Academic Disciplines
(3)
Hours: 90 (36 lecture, 54 lab)
Students identify how personal challenges (including reading and writing methodologies) affect academic performance in specific disciplines, develop strategies to address these challenges, and assess effectiveness of adopted strategies.

ENG 119B — CAP Core Literacies: Reading, Writing and Critical Thinking Across Disciplines
(3)
Hours: 90 (36 lecture, 54 lab)
Students identify standards and strategies for success embedded in their field of interest (including reading, writing, research, critical inquiry and problem-solving), and transfer these skills across disciplines.

ENG 160 — Reading and Literacy Strategies for Nursing
(3)
Prerequisites: ENG 70 with a minimum grade of “C”
Hours: 54 lecture
Designed to assist nursing students further develop reading, communication and study strategies that are needed in the Licensed Vocational Nursing (LVN) Program. Intended as a bridge between the CNA and LVN Programs, the course focuses on the academic skills needed by pre-nursing students.

ENG 161 — Comprehension and Study Strategies for Beginning Accounting Students
(2)
Skills Advisories: ENG 103. Proficiency in Math 4 or 41
Hours: 36 lecture
Reading course to improve critical thinking, comprehension, vocabulary, visual literacy and study skills for the beginning Accounting student.

ENG 162 — Comprehension and Study Strategies for Advanced Accounting Students
(2)
Skills Advisories: Eligibility for ENG 110 or 110.
Proficiency in MATH 4 or 41
Hours: 36 lecture
Reading course to improve critical thinking, comprehension, vocabulary, visual literacy and study skills. Designed to serve as a companion course to financial and managerial Accounting courses.
Environmental Horticulture

Degrees, Awards and Certificates
Associate in Science Degree: Environmental Horticulture, with four emphases:
• Ecological Restoration and Management
• Landscape Contracting C-27 License
• Landscape Design
• Nursery and Greenhouse Technology
Skills Competency Award: Landscape Operations
Skills Competency Award: Sustainable Horticulture
Certificate of Achievement: Environmental Horticulture

Program Description
The Environmental Horticulture Program teaches the basic skills and provides state-of-the-art information required to develop a strong foundation for the ornamental horticulture and ecological restoration industries. The program encourages professional standards, a strong work ethic and environmentally sound management practices.

Horticulture industry professionals from throughout the community serve as members of the college’s Environmental Horticulture Advisory Committee. These “hands-on” professionals provide guidance, expertise and leadership in enhancing the program’s response to community and industry needs. They meet yearly with program staff members, college administrators and student representatives to review program goals and objectives. Course offerings and content have been determined through this participation and are geared to meet the needs of the landscape, ornamental horticulture and ecological restoration trades.

On the college’s East Campus, practical lab classes utilize two outdoor classroom gardens, the SBCC Lifescape and Chumash Point Ethnobotanical Preserve. The gardens are also the site of the nursery/greenhouse unit.

The Environmental Horticulture (EH) Program is designed to provide the student with the necessary skills at the apprentice level to begin work in a wide range of landscape trades. There are three vocational approaches within the Environmental Horticulture program: (1) the one-semester Skills Competency approach; (2) the Certificate of Achievement approach, where the certificate is awarded after the one-year (two-semester) format is successfully completed; and (3) the certificate can lead to any one of the four two-year A.S. Degree options in:
   a. Landscape Contracting, C-27 License (satisfying one or more years of State requirements)
   b. Environmental Landscape Design
   c. Nursery and Greenhouse Technology
   d. Ecological Restoration and Management

The program cannot guarantee job placement; however, many landscape industry employers, in search of energetic and skilled apprentices, contact the college to request referral of program graduates. The EH Program Skills Competency Award, EH Certificate and Certified Green Gardener, and Associate Degrees often provide expanding job opportunities.

Program Student Learning Outcomes

Environmental Horticulture Degree
1. Identify common native and ornamental landscape plants.
2. Conduct a landscape assessment for ecological and economic sustainability.
3. Trouble-shoot pest, water, soil and location problems of landscape plants and plantings.
4. Provide recommendations for enhancing health of landscape trees, shrubs, other plants and soils.
5. Describe and implement both conventional and organic methods of landscape maintenance and care.
6. Design, plan and install basic irrigation systems.
7. Design, plan and install basic hardscape elements.
8. Utilize basic propagation methods to produce landscape plants.
9. Demonstrate a strong work and personal ethic through care of horticultural tools and facilities, and through care of personal health during horticultural practices.
10. Experience supervised, hands-on horticultural work.
11. Demonstrate proficiency in native plant ecology and restoration.
12. Demonstrate basic skills in landscape design.

Environmental Horticulture Certificate
1. Identify common native and ornamental landscape plants.
2. Conduct a landscape assessment for ecological and economic sustainability.
3. Trouble-shoot pest, water, soil and location problems of landscape plants and plantings.
4. Provide recommendations for enhancing health of landscape trees, shrubs, other plants and soils.
5. Describe and implement both conventional and organic methods of landscape maintenance and care.
6. Design, plan and install basic irrigation systems.
7. Design, plan and install basic hardscape elements.
8. Utilize basic propagation methods to produce landscape plants.
9. Demonstrate a strong work and personal ethic through care of horticultural tools and facilities and through care of personal health during horticultural practices.
10. Experience supervised hands-on horticultural work.

Faculty and Office
Michael Gonella, Chair (A-162A, ext. 3042)
Alan Price, Dean (A-218 ext. 3044)

AS Degree: Environmental Horticulture
Emphasis: Landscape Contracting C-27 License
Department Requirements (40-44 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EH 101</td>
<td>Plant Identification and Culture</td>
<td>3</td>
</tr>
<tr>
<td>EH 102</td>
<td>Soils and Plant Nutrients</td>
<td>3</td>
</tr>
<tr>
<td>EH 103</td>
<td>Irrigation and Garden Waterworks</td>
<td>3</td>
</tr>
<tr>
<td>EH 104</td>
<td>Landscape Maintenance</td>
<td>3</td>
</tr>
<tr>
<td>EH 105</td>
<td>Landscape Construction</td>
<td>3</td>
</tr>
<tr>
<td>EH 106</td>
<td>Greenhouse/Nurs Oper/Plant Prop/Rec</td>
<td>3</td>
</tr>
<tr>
<td>EH 110</td>
<td>Introduction to Horticulture</td>
<td>3</td>
</tr>
<tr>
<td>EH 201</td>
<td>Arboriculture</td>
<td>3</td>
</tr>
<tr>
<td>EH 290</td>
<td>Work Experience in Environ. Horticulture</td>
<td>2-4</td>
</tr>
</tbody>
</table>

An additional 12 units of controlled electives are required. See counselor for list of required courses for each option.

The Associate Degree will be awarded upon completion of both department and college requirements.

AS Degree: Environmental Horticulture
Emphasis: Landscape Design
Department Requirements (42-46 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRFT 126</td>
<td>Landscape Drafting I or EH 126</td>
<td>3</td>
</tr>
<tr>
<td>EH 101</td>
<td>Plant Identification and Culture</td>
<td>3</td>
</tr>
<tr>
<td>EH 103</td>
<td>Irrigation and Garden Waterworks</td>
<td>3</td>
</tr>
<tr>
<td>EH 104</td>
<td>Landscape Maintenance</td>
<td>3</td>
</tr>
<tr>
<td>EH 105</td>
<td>Landscape Construction</td>
<td>3</td>
</tr>
<tr>
<td>EH 109</td>
<td>Permaculture Design</td>
<td>5</td>
</tr>
<tr>
<td>EH 110</td>
<td>Introduction to Horticulture</td>
<td>3</td>
</tr>
<tr>
<td>EH 202</td>
<td>Residential Landscape Design</td>
<td>3</td>
</tr>
<tr>
<td>EH 290</td>
<td>Work Experience in Environ. Horticulture</td>
<td>2-4</td>
</tr>
</tbody>
</table>

An additional 12 units of controlled electives are required. See counselor for list of required courses for each option.

The Associate Degree will be awarded upon completion of both department and college requirements.

AS Degree: Environmental Horticulture
Emphasis: Nursery and Greenhouse Technology
Department Requirements (40-44 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EH 101</td>
<td>Plant Identification and Culture</td>
<td>3</td>
</tr>
<tr>
<td>EH 102</td>
<td>Soil and Plant Nutrients</td>
<td>3</td>
</tr>
<tr>
<td>EH 103</td>
<td>Irrigation and Garden Waterworks</td>
<td>3</td>
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<tr>
<td>EH 104</td>
<td>Landscape Maintenance</td>
<td>3</td>
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<tr>
<td>EH 105</td>
<td>Landscape Construction</td>
<td>3</td>
</tr>
<tr>
<td>EH 106</td>
<td>Greenhouse/Nurs Oper/Plant Prop/Rec</td>
<td>3</td>
</tr>
<tr>
<td>EH 110</td>
<td>Introduction to Horticulture</td>
<td>3</td>
</tr>
<tr>
<td>EH 112</td>
<td>Ecological Restoration I or EH 113</td>
<td>3</td>
</tr>
<tr>
<td>EH 290</td>
<td>Work Experience in Environ. Horticulture</td>
<td>2-4</td>
</tr>
</tbody>
</table>

An additional 12 units of controlled electives are required. See counselor for list of required courses for each option.

The Associate Degree will be awarded upon completion of both department and college requirements.
AS Degree: Environmental Horticulture

Emphasis: Ecological Restoration and Management

Department Requirements (41-44 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 120</td>
<td>Natural History or Ecology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 122</td>
<td>Ecology</td>
<td>3</td>
</tr>
<tr>
<td>BOT 122</td>
<td>Flowering Plant Identification or Field Botany</td>
<td></td>
</tr>
<tr>
<td>DRFT 126</td>
<td>Landscape Drafting I or EH 126 — Landscape Drafting I</td>
<td>3</td>
</tr>
<tr>
<td>EH 102</td>
<td>Soils and Plant Nutrients</td>
<td>3</td>
</tr>
<tr>
<td>EH 104</td>
<td>Landscape Maintenance</td>
<td>3</td>
</tr>
<tr>
<td>EH 109</td>
<td>Permaculture Design</td>
<td>5</td>
</tr>
<tr>
<td>EH 110</td>
<td>Introduction to Horticulture</td>
<td>3</td>
</tr>
<tr>
<td>EH 112</td>
<td>Ecological Restoration I</td>
<td>3</td>
</tr>
<tr>
<td>EH 113</td>
<td>Ecological Restoration II</td>
<td>3</td>
</tr>
<tr>
<td>EH 290</td>
<td>Work Experience in Horticulture</td>
<td>4</td>
</tr>
<tr>
<td>ENVS 110</td>
<td>Humans and The Biological Environment</td>
<td>3</td>
</tr>
<tr>
<td>ENVS 111</td>
<td>Environmental Field Studies</td>
<td>1</td>
</tr>
<tr>
<td>GEOG 171/ERTH 171</td>
<td>Introduction to Geog Information Systems and Maps</td>
<td>2</td>
</tr>
</tbody>
</table>

Electives (Choose at least one course from the following)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERTH 111*</td>
<td>Dynamic Earth-Physical Geology or</td>
<td>3</td>
</tr>
<tr>
<td>ERTH 111H*</td>
<td>Dynamic Earth-Physical Geology, Honors</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 101/ERTH 141*</td>
<td>Physical Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 172/ERTH 172</td>
<td>GIS: Software Applications</td>
<td>2</td>
</tr>
</tbody>
</table>

*ERTH 111 or 111H will satisfy area A of the SBCC GE requirements if taken with ERTH 111L. ERTH 141/GEOG101 will satisfy area A of the SBCC GE requirements if taken with ERTH 141L/GEOG 101L.

Students must complete all department requirements with a cumulative GPA of 2.0 or better. Candidates for a Skills Competency Award are required to complete at least 20% of the department requirements through SBCC.

Certificate Requirements

Upon successful completion of program requirements, as outlined above, SBCC awards the student a Certificate of Achievement in Environmental Horticulture. It is recognized by landscape industries throughout the region as verification of the graduate’s achievement in acquiring requisite horticulture skills. Students may start the program in either the Fall or Spring Semester.

Skills Competency Award:
Sustainable Horticulture

Department Requirements (12 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EH 101</td>
<td>Plant Identification and Culture</td>
<td>3</td>
</tr>
<tr>
<td>EH 103</td>
<td>Irrigation and Garden Waterworks</td>
<td>3</td>
</tr>
<tr>
<td>EH 104</td>
<td>Landscape Maintenance</td>
<td>3</td>
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<tr>
<td>EH 110</td>
<td>Introduction to Horticulture</td>
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</tbody>
</table>

Optional

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EH 290</td>
<td>Work Experience in Environ. Horticulture</td>
<td>1-4</td>
</tr>
</tbody>
</table>

Students must achieve a grade of “C” or higher or credit in all courses.

Skills Competency Award:
Landscape Operations

Department Requirements (12 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EH 102</td>
<td>Soils and Plant Nutrients</td>
<td>3</td>
</tr>
<tr>
<td>EH 105</td>
<td>Landscape Construction</td>
<td>3</td>
</tr>
</tbody>
</table>

The Associate Degree will be awarded upon completion of both department and college requirements.

Certificate: Environmental Horticulture

Department Requirements (28-32 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRFT 126</td>
<td>Landscape Drafting I or EH 126 — Landscape Drafting I</td>
<td>3</td>
</tr>
<tr>
<td>EH 101</td>
<td>Plant Identification and Culture</td>
<td>3</td>
</tr>
<tr>
<td>EH 102</td>
<td>Soils and Plant Nutrients</td>
<td>3</td>
</tr>
<tr>
<td>EH 103</td>
<td>Irrigation and Garden Waterworks</td>
<td>3</td>
</tr>
</tbody>
</table>
EH 110 — Introduction to Horticulture ................. 3

Optional
EH 290 — Work Experience in Environ. Horticulture ....... 1-4

Students must complete the above courses with the grade of C or higher or pass in all courses. Candidates for a Skills Competency Award are required to complete at least 20% of the department requirements through SBCC.

College Requirements
For complete information, see “Graduation Requirements” in the Catalog Index.

Planning a Program of Study
Some students work on campus. Others work in the private landscape contracting industry (under the supervision of licensed contractors), in the nursery/greenhouse industry, or in the landscape or maintenance field. Still other program participants work as free-lancers in the various environmental horticulture specialties, including habitat management.

EH 290 — Work Experience in Environmental Horticulture, is considered a vital aspect of the program—generating two to four units of credit each semester for enrollees. The college, the student and job supervisor work together to develop meaningful work experience situations and projects. It is the responsibility of the individual student to acquire such experience under the program.

One-year Certificate students also need to take DRFT 126 — Landscape Drafting I and EH 110 — Introduction to Horticulture, to earn the State-issued Certificate. Units earned under the one-year Certificate of Achievement program are applied toward the Associate Degree; many articulate toward the Horticulture degree program offered by California Polytechnic State University.

Program Cost and Outcome
For planning purposes, the webpage below provides information on the cost of attendance, program length (assuming a student attends full-time), financing options and historical student completion rates:
www.sbcc.edu/financialaid/gainfulemployment/Environmental%20Horticulture.htm

Environmental Horticulture Courses
EH 101 — Plant Identification and Culture (3) — CSU, UC
Hours: 90 (36 lecture, 54 lab)
Designed to acquaint the student with woody ornamental plants and selected accent plants used in the Santa Barbara region. Approximately 150 trees, shrubs, vines and herbaceous ornamentals are presented for identification and close scrutiny.

EH 102 — Soils and Plant Nutrients (3) — CSU
Hours: 90 (36 lecture, 54 lab)
Covers soils as related to sustainable plant care. Emphasis on soil analysis, problem identification, soil remediation, soil enhancement and the soil food web.

EH 103 — Irrigation and Garden Waterworks (3) — CSU
Hours: 90 (36 lecture, 54 lab)
Introduction to the materials and methods used in landscape irrigation system design, maintenance and repair. Trouble-shooting and retrofitting systems for water conservation are also highlighted including drip and underground systems. Simple plan reading, system scheduling and controller use are reviewed.

EH 104 — Landscape Maintenance (3) — CSU
Hours: 90 (36 lecture, 54 lab)
Covers basic landscape maintenance topics emphasizing sustainable methods of enriching soil health, composting, mulching, water-efficient irrigation systems, pruning, fertilization, plant selection, turf management, insect control and weed control. Personal health and safety emphasized. Student groups develop and implement sustainable landscape projects.

EH 105 — Landscape Construction (3) — CSU
Hours: 90 (36 lecture, 54 lab)
Designed to familiarize students with basic landscape construction work, equipment and materials. Explores plan reading, grading, drainage, concrete, masonry, carpentry, electrical and plumbing, as well as C-27
landscape contractor’s license requirements, business practices and legalities of this specialty.

(3) — CSU  
*Hours: 90 (36 lecture, 54 lab)*  
Introduces students to the greenhouse/nursery. Plant recognition is required for indoor plants, turf/groundcovers, bedding plants and herbaceous perennials. Greenhouse management includes maintenance, management and structure development.

**EH 107 — Landscape Sustainability Audit & Retrofit**  
(3) — CSU  
*Prerequisites: EH 109 with a minimum grade of “B”*  
*Hours: 90 (36 lecture, 54 lab)*  
Introduces students to the process of auditing an existing landscape setting for sustainability. Demonstrates methods to retrofit that landscape for greater economic, ecological and resource sustainability.

**EH 109 — Permaculture Design**  
(5) — CSU  
*Hours: 90 lecture*  
Application of ecological and environmental principles to designing human systems that are locally sustainable and require reduced inputs. The successful student receives Permaculture Design certification, recognized worldwide.

**EH 109B — Advanced Permaculture Design**  
(3) — CSU  
*Prerequisites: EH 109 with a minimum grade of “B”*  
*Hours: 90 (36 lecture, 54 lab)*  
Provides hands-on opportunities to gain skills in permaculture design, while reviewing and adding depth of knowledge to basic permaculture design concepts.

**EH 110 — Introduction to Horticulture**  
(3) — CSU, UC  
*Hours: 54 lecture*  
Introduction to central concepts of environmental horticulture, covering horticultural practices and methods, with focus on long-term sustainability and local ecological issues.

**EH 112 — Ecological Restoration I**  
(3) — CSU  
*Hours: 90 (36 lecture, 54 lab)*  
Examines the principles and techniques of regional habitat restoration. Class work emphasizes the identification, collection, propagation and care of native plants.

**EH 113 — Ecological Restoration II**  
(3) — CSU  
*Hours: 90 (36 lecture, 54 lab)*  
Review of the concepts and implementation of habitat restoration. Santa Barbara region habitats studied include chaparral, coastal sage scrub, oak woodland, and riparian eco-niches. Emphasis on watersheds and riparian restoration. Principles of ecological re-creation and restoration techniques include seed collection, propagation and project evaluation.

**EH 126/DRFT 126 — Landscape Drafting I**  
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 103 Proficiency in MATH 1*  
*Hours: 72 (45 lecture, 27 lab)*  
Principles of drafting and plan reading required for the landscape architecture and ornamental horticulture fields. Work includes investigating styles and designing and drafting plans, elevations and details.

**EH 127/DRFT 127 — Landscape Drafting II**  
(3) — CSU, UC  
*Prerequisites: DRFT 126 with a minimum grade of “C” or EH 126*  
*Skills Advisories: Eligibility for ENG 103 Proficiency in MATH 1*  
*Hours: 72 (45 lecture, 27 lab)*  
Advanced Drafting and plan reading course using manual and computer drafting tools. For landscape architecture and ornamental horticulture fields. Includes site plans, elevations and details.
EH 201 — Arboriculture
(3) — CSU
Hours: 54 lecture

Introduction to the care of woody plants, including trees, shrubs, vines and palms. Covers function, structure, taxonomy, anatomy and physiology of woody plants; the effects of soil, water and fertilizer, pruning, safety, planting, early care, and diagnostics of pests and disease.

EH 202 — Residential Landscape Design
(3) — CSU
Hours: 54 lecture

Foundational course for basic skills in design and implementation of residential landscaping. Theory and practical development of skills and art forms associated with hardscape and softscape elements and plans examined.

EH 203 — Pest Management
(1) — CSU
Hours: 18 lecture

Designed for professionals or others who need to become familiar with sustainable and Integrated Pest Management (IPM) techniques. Helps students prepare for state certification or licensing and satisfy state safety requirements.

EH 204 — Edible Landscaping
(1) — CSU
Hours: 18 lecture

Reviews some 200 edible trees, shrubs, vines and herbaceous perennials and includes their quick identification, care and history.

EH 205 — Ground Covers and Turf
(1) — CSU
Hours: 18 lecture

Explores various turf selections, including sustainable turf substitutes, and various groundcover plants adaptable to Southern California.

EH 206 — Water Efficient Landscapes
(1) — CSU
Hours: 18 lecture

Covers the design and implementation of low-water use landscapes by reviewing water-efficient plant selection, design and issues of water sustainability in landscapes.

EH 207 — Small Scale Food Production
(1) — CSU
Hours: 18 lecture

Explores the natural and sustainable techniques and skills used to produce healthy, organic produce. Soil development composting, mulching, suitable vegetables, fruit trees and herb cultivation covered.

EH 212 — Summer Native Flora Identification
(1) — CSU
Hours: 18 lecture

Examination of the identification and cultivation of native California summer plants. For use in landscaping and restoration.

EH 290 — Work Experience in Environmental Horticulture
(1-4) — CSU

Limitation on Enrollment: Must be enrolled in Environmental Horticulture Program, taking at least one EH prefix class.

Students attend six evening classes for three hours approximately every three weeks.

Hours: 60-300 lab

Exploration of elements essential to success in the fields of horticulture, including proper work ethic, job searching and job preparation. Outside of class, students work to earn credit. Time sheets are done monthly, supervisor evaluation is required, and a three-way semester contract is developed between the student, the student’s supervisor and the instructor.

EH 299 — Independent Study in Environmental Horticulture
(1-4) — CSU

Limitation on Enrollment: Completion of a minimum of 12 units at SBCC, with a 2.5 GPA, and a minimum of 6 units, with a 3.0 GPA within the department.

Hours: 48-192 lab

For complete information, see “Independent Study” in the Catalog Index.
Environmental Studies

Degree
Associate in Arts Degree: Environmental Studies

Program Description
The Environmental Studies Program is an interdisciplinary program designed to develop an understanding of living and non-living earth processes and how they affect and are affected by the human population. Courses in biology, earth sciences and history provide a foundation in the functioning of living systems including population growth, ecology, and toxicology; geologic processes including energy resources, geologic hazards, and pollution; and human attitudes towards nature including historical perspective and context for our current situation.

Through these courses students will gain a better understanding of how humans are intimately connected with the environment and how human activities impact and are impacted by the environment.

An understanding of environmental matters is essential in today’s world. Careers in natural resources, land use planning, business, energy, waste management, pollution control, law and environmental administration all require knowledge of environmental issues and the functioning of ecosystems. Career opportunities may require more discipline-specific studies in biology, geology or political science.

Program Student Learning Outcomes
1. Explain how human activities impact the environment and how the environment impacts human society over time.
2. Explain the interconnections among the lithosphere, biosphere, hydrosphere and atmosphere.
3. Apply critical thinking to establish connections and evaluate the extent to which human activities degrade, protect, or rehabilitate environmental health.

Faculty and Offices
William Dinklage, Earth Sciences (EBS-111, ext. 4114)
Adam Green, Faculty Coordinator (EBS-323, ext. 2394)
Jeffrey W. Meyer, Earth Sciences (EBS-110, ext. 4270)
Jan L. Schultz, Earth Sciences (EBS-113, ext. 2313)
Marilynn Spaventa, Dean

AA Degree Requirements
All students majoring in Environmental Studies must complete a set of departmental requirements consisting of courses that provide a basic understanding of the physical, biological and social sciences and their application to analysis of environmental processes and issues. As a general curriculum, this option is suitable for students to maintain a broad range of choices for their degree. Additional required courses stress the need for transfer possibilities or for growth potential in the environmental professions.

AA Degree: Environmental Studies
The following program will satisfy the core requirements and college requirements for graduation with an AA Degree, and includes additional recommended courses for transfer to most four-year institutions:

Department Requirements (53-60.5 Units)
ENVS 110 — Humans and the Biological Environment ......3
ENVS 111 — Environmental Field Studies..................1
ENVS 115 — Environmental Geology or ..................3
ERTH 115 — Environmental Geology ......................3
ENVS 115L — Environmental Geology, Lab or............1
ERTH 115L — Environmental Geology, Lab ............1
ENVS 116 — Energy and Natural Resources or ..........3
ERTH 116 — Energy and Natural Resources .............3
HIST 112 — American Environmental History or ......3
ENVS 112 — American Environmental History ..........3
ENVS 200 — Projects in Sustainability ....................2
BIOL 100 — Concepts of Biology or ....................4
BIOL 101 — Plant Biology or ......................5
BIOL 102 — Animal Biology or ....................5
BIOL 103 — Cell Biology ................................5.5
CHEM 155 — General Chemistry I .............................. 5
ECON 101 — Microeconomics or ............................... 3
ECON 102 — Macroeconomics ................................. 3
ENG 110 — Composition and Reading or ................. 3
ENG 110H — Composition and Reading, Honors .......... 3
ENG 111 — Critical Think. and Comp. Through Lit or ... 3
ENG 111H — Crit. Thk. and Comp. Thru Lit, Honors .... 3
ERTH 111 — Dynamic Earth-Physical Geol and ......... 3
ERTH 111L — Dynamic Earth-Physical Geol Lab or ...... 1
ERTH 111H — Dynamic Earth-Phys Geol, Honors and ... 4
ERTH 111L — Dynamic Earth-Physical Geol Lab or ...... 1
ERTH 151 — Introductory Physical Oceanography and ... 3
ERTH 151L — Intro. Physical Oceanography Lab or ...... 1
ERTH 141 — Physical Geography and ....................... 3
ERTH 141L — Physical Geography Laboratory or ........ 1
GEOG 101 — Physical Geography and ....................... 3
GEOG 101L — Physical Geography Laboratory or ........ 1
ERTH 152 — Weather and Climate or ....................... 1
GEOG 152 — Weather and Climate ........................... 3
MATH 117 — Elementary Statistics or ....................... 4
MATH 117H — Elementary Statistics, Honors ............. 4
PHIL 101 — Introduction to Ethics or ....................... 3
PHIL 101H — Introduction to Ethics, Honors or .......... 4
PHIL 105 — Business Ethics or ............................... 3
PHIL 205 — Introduction to Logic or ....................... 3
POLS 132 — Political Thinking ............................... 3

Plus choose two courses from the following:

ANTH 103 — Introduction to Cultural Anthropology .... 3
ANTH 109 — Comparative World Cultures ................. 3
ERTH 142 — Economic Geography or ....................... 3
GEOG 105 — Economic Geography .......................... 3
GEOG 102 — Human Geography ............................. 3
GLST 102 — Problems of the Global Village ............... 3
POLS 101 — American Government and Politics .......... 3
POLS 121 — International Politics .......................... 3
POLS 131 — Comparative Politics .......................... 3

Plus choose one course from Area 3A of IGETC selected from the following:

NATA 112; PE 250; TA 103, 106, 107, 108, 120, 160

College Requirements

For Complete information, see “Graduation Requirements” in the Catalog Index.

Planning a Program for Transfer

Special problems confront the student planning to transfer to a four-year university. Major requirements in Environmental Studies differ from school to school and within a single institution by major emphasis. You should work closely with the Counseling Center or a faculty adviser for the Environmental Studies Program.

Environmental Studies Courses

ENVS 110 — Humans and the Biological Environment (3) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture

Growth and variations in populations of organisms and their interactions with the physical environment. Characteristics of living natural resources and changes caused by expanding human populations and technological developments. Satisfies SBCC General Education requirement in Natural Sciences when combined with ENVS 111. Required for the Environmental Studies major.
ENVS 111 — Environmental Field Studies
(1) — CSU, UC
Corequisites: ENVS 110
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lab
Field studies designed to demonstrate general ecological/environmental principles through exposure to and analysis of many different communities and sites of environmental concern. Satisfies SBCC General Education requirement in Natural Sciences when combined with ENVS 110.

ENVS 112/HIST 112 — American Environmental History
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Examines American attitudes and actions towards the environment, by Indians and European immigrants, from the colonial period to the present. Discusses current environmental problems and shows their context in American development.

ENVS 115/ERTH 115 — Environmental Geology
(3) — CSU, UC
Skills Advisories: MATH 1 and ENG 103
Course Advisories: Concurrent enrollment in ENVS 115L/ERTH 115L and 131 or 132
Hours: 54 lecture
Introduction to the problems of volcanism, earthquakes, fire, floods, landslides and other geologic hazards; air and water pollution, hazardous materials and land use planning. Applications to the Santa Barbara area emphasized. Required of all Environmental Studies majors.

ENVS 115L/ERTH 115L — Environmental Geology Laboratory
(1) — CSU, UC
Corequisites: ENVS 115/ERTH 115
Skills Advisories: MATH 1; ENG 103
Hours: 54 lab
Laboratory approach to topics covered in ENVS 115, with emphasis on rock and mineral identification, hazard assessment, geologic resource management, and land use planning. In-lab field trips.

ENVS 116/ERTH 116 — Energy and Natural Resources
(3) — CSU, UC
Skills Advisories: MATH 4 and ENG 103
Hours: 54 lecture
Study of formation, exploration, development and judicious use of natural resources in relation to present and future energy requirements, electricity, conservation, fossil fuels, solar, geothermal, nuclear and hydrogen. Required of all Environmental Studies majors.

ENVS 200 — Projects in Sustainability
(2) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 36 lecture
Students work in groups to develop projects that make the college and local community more sustainable. Lectures, discussions and workshops provide the student with current knowledge in environmental science, sustainable practices, and real-world skills needed to implement practical solutions to local environmental and social problems.

ENVS 201 — Leadership in Projects in Sustainability
(2) — CSU
Prerequisites: ENVS 200 with a minimum grade of “C”
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 36 lecture
Students take on a leadership role in projects that make the college and local community more sustainable. Students will study consensus building and management in the context of projects in sustainability to hone their skills as project managers.

ENVS 295 — Internship in Environmental Studies
(2-4) — CSU
Limitation on Enrollment: Student must have completed a minimum of 2 units in ENVS or a minimum of 3 units in any of the following: EH, GLST, BIOL or ERTH
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 108-273 lab
Structured on-the-job experience in a field directly related to the student’s area of interest in environmental studies.
Film and Media Studies

Degree
Associate in Arts Degree: Film and Media Studies

Program Description
Film and media are ever-present in our world today in various formats, whether in film theaters, on television screens, on handheld devices, or online. Film and Media Studies explores the theory, criticism and history of motion pictures and of continually evolving media platforms that shape and influence our everyday lives.

The Film and Media Studies Department at Santa Barbara City College offers a wide variety of courses designed for film majors and interested non-majors who wish to enhance their knowledge and appreciation of film and media as part of their undergraduate education. Students learn about media literacy through a vast array of films and media from the early years of film history to the contemporary era, including both American and international works.

The goals of the Film and Media Studies Department are for students to articulate and demonstrate an understanding of the history of U.S. and world cinema, in relation to filmmakers, style, movements, film industries and genres, as well as an understanding of the theories and critical models of cinema, in relation to auteur studies, style, movements, genre and social ideology, using film terminology and standard English in written and oral presentations. Students are prepared to continue their studies in upper-division coursework and pursue baccalaureate degrees in such majors as Film Studies, Cinema and Media Studies, Film and TV Production, Communication Studies and others. Film and Media Studies courses articulate to UC and CSU campuses, as well as other 4-year universities.

SBCC Students are able to immerse themselves in film and media research and analysis in an academic setting, as well as in current film industry practices. The Film and Media Studies Department offers a vast survey of courses on-campus, online, and as hybrids; internationally through Study Abroad and at film festivals, such as the Santa Barbara International Film Festival, AFI Fest in Hollywood, and the Los Angeles International Film Festival. Students also have the opportunity to gain practical work experience through the Film and Media Studies Internship Program at various film festivals.

The required courses in the Film and Media Studies track are designed to provide students with an introduction to film and media literature, film, and media criticism and theory, a basic knowledge of film history and the motion picture industry, and a familiarity with major directors, actors, and practitioners of cinema. Electives enhance this course of study by exposing students to the principles, technology, and techniques of motion picture and media production.

The Film and Media Studies Department at SBCC has an excellent record of course articulation and student transfer to the University of California and campuses throughout the CSU system, as well as top four-year film schools such as UCLA, USC, NYU and Chapman University.

Go to the Film and Media Studies website for more information: http://film.sbcc.edu and the SBCC Film Reviews site: http://sbccfilmreviews.org.

Like us on Facebook: www.facebook.com/SBCCFilmStudies, and follow us on Twitter: http://twitter.com/SBCCFilmStudies.

Program Student Learning Outcomes
1. Articulate and demonstrate an understanding of the history of U.S. and world cinema, in relation to filmmakers, style, movements, film industries and genres, using film terminology and standard English in written and oral presentations.
2. Articulate and demonstrate an understanding of the theories and critical models of cinema, in relation to auteur studies, style, movements, genre and social ideology, using film terminology and standard English in written and oral presentations.

Faculty and Offices
Nico Maestu, Chair, Associate Professor
(ECOC-1, #16, (805) 730-4328, maestu@sbcc.edu)

Michael Stinson, Professor
(ECOC-1, #17, ext. 3022, stinson@sbcc.edu)

Alice Perez, Dean
(A-118, ext. 2354, scharper@sbcc.edu)
AA Degree: Film and Media Studies

Department Requirements (33-34 units)

Required Core Classes and Electives
(recommended sequence)

Year 1 – Fall

FS 101 — Introduction to Film or ........................................... 3
FS 101H — Introduction to Film, Honors............................. 4
FS 104 — American Film to the 1960s................................. 3
FS 110 — World Cinema to the 1960s ................................. 3

Year 1 – Spring

FS 107 — Contemporary American Film ............................ 3
FS 111 — Contemporary World Cinema .............................. 3
FS 121 — Documentary Film ............................................. 3

Year 2 – Fall

FS 116 — Gender and Sexuality in Film ............................. 3
FS 118 — Film Genres ...................................................... 3
FS 173 — Screenwriting I or ............................................. 3
ENG 173 — Screenwriting I ................................................ 3

*Elective

Year 2 – Spring

FS 120 — Master Filmmakers ............................................. 3

*Elective chosen from the following courses:

FP 185 — Directing for the Camera or ............................. 3
TA 185 — Directing for the Camera .................................. 3
FS 105 — Television Studies ............................................. 3
FS 108A — Film Festival Studies: 10 Days ....................... 3
FS 109 — Film Studies II .................................................. 3
FS 112A — French Film .................................................... 3
FS 112B — Art Cinema ..................................................... 3
FS 113 — Experimental Film ............................................. 3
FS 114 — History of Animation ........................................ 3
FS 115 — The Vietnam War in Film .................................. 3
FS 119 — Introduction to Film Comedy ............................ 3
FS 174 — Screenwriting II ................................................ 3
TA 103 — Theatre Appreciation ....................................... 3

College Requirements

For complete information, see “Graduation Requirements” in the Catalog Index.

Film and Media Studies Courses

FS 101 — Introduction to Film Studies
(3) — CSU, UC*
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 72 (45 lecture, 27 lab)

Introduction to one of the most powerful cultural and artistic mediums of our time: cinema. Topics include film production, cinema techniques and visual styles, as well as a critical analysis of film through the relationship of visual form, structure and thematic content. Focuses on the aesthetics, history, literature and creative techniques, as well as the depiction of social cultures, history and values in film. Lectures, discussions and reading are supplemented by the screening of representative films. (*UC transfer limit: FS 101 and 101H combined: maximum credit, one course)

FS 101H — Introduction to Film Studies, Honors
(4) — CSU, UC*
Skills Advisories: Eligibility for ENG 110 or 110H
Limitation on Enrollment: Honors Program Acceptance
Hours: 90 (63 lecture, 27 lab)

Introduction to one of the most powerful cultural and artistic mediums of our time: cinema. Topics include film production, cinema techniques and visual styles, as well as a critical analysis of film through the relationship of visual form, structure and thematic content. Focuses on film aesthetics, history, literature and creative techniques, as well as a depiction of social cultures, history and values in film, and includes an in-depth examination of major directors and important film movements. Lectures, discussions and reading are supplemented by the screening of representative films. (*UC transfer limit: FS 101 and 101H combined: maximum credit, one course)

FS 104 — American Film to the 1960s
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: FS 101 with a minimum grade of “C”
Hours: 72 (45 lecture, 27 lab)

Study of the development, history and aesthetics of the Hollywood studio system, as well as its impact
on our culture. Study of classic films as forms of popular entertainment and cinematic art, including various Hollywood genres and their independent counterparts. Lectures, discussions and readings are supplemented by the screening and critical analysis of representative films.

**FS 105 — Introduction to Television Studies**
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 110 or 110H  
Course Advisories: FS 101 with a minimum grade of “C”  
Hours: 72 (45 lecture, 27 lab)*

Introduction to the basic concepts, forms, practices and policies that have guided the evolution and operation of television in the United States. Examines developments in programming, industrial and institutional structure, regulation, audiences, technological innovation and cultural significance of television. Lectures, discussions and readings are supplemented by the screening and critical analysis of representative programs.

**FS 107 — Contemporary American Film**
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 110 or 110H  
Course Advisories: FS 101 with a minimum grade of “C”  
Hours: 72 (45 lecture, 27 lab)*

Study of the changes to the Hollywood studio system, alternative productions, and independent film since the 1960s. Covers such topics as the decline of the studio system, the rise of American New Wave cinema, the history of the blockbuster, the parallel histories of independent and underground film, and the presence of media conglomerates.

**FS 108A — Film Festival Studies: 10 Days**
(3) — CSU  
*Skills Advisories: Eligibility for ENG 98 or 103  
Course Advisories: FS 101 with a minimum grade of “C”  
Hours: 108 (27 lecture, 81 lab)*

Ten-day field course at film festivals to study U.S. and international fiction, experimental, and documentary films. Focuses on the role of festivals in the film marketplace, emergence of new filmmakers, national cinemas and the practice of writing film criticism. Film screenings, lectures, discussions, readings and panel discussions. Fee required; contact department for information.

**FS 108B — Film Festival Studies: 5 Days**
(2) — CSU  
*Skills Advisories: Eligibility for ENG 98 and 103  
Course Advisories: FS 101 with a minimum grade of “C”  
Hours: 48 (24 lecture, 24 lab)*

Five-day field course at film festivals to study U.S. and international fiction, experimental, and documentary films. Focuses on the role of festivals in the film marketplace, emergence of new filmmakers, national cinemas and the practice of writing film criticism. Film screenings, lectures, discussions, readings and panel discussions. Fee required; contact department for information.

**FS 109 — Film Studies II**
(3) — CSU, UC  
*Prerequisites: FS 101 or 101H or 104 or 107 or 110 or 111 or 116 or 118 or 120 or 121  
Skills Advisories: Eligibility for ENG 103 and 110 or 110H  
Hours: 72 (45 lecture, 27 lab)*

Study of the formal dimensions of cinema (narration, causality, space, time and sound) through analyses of individual films. Focuses on close readings of films and on developing a strong film writing approach, moving beyond the content of FS 101. Lectures, discussions and readings supplemented by the screening and analysis of representative films.

**FS 110 —World Cinema to the 1960s**
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 98 and 103  
Course Advisories: FS 101 or 101H with a minimum grade of “C”  
Hours: 72 (45 lecture, 27 lab)*

Study of international film history, theory and aesthetics, from the invention of cinema in the 1890s through the 1950s. Includes fictional narrative film, documentary and avant-garde film of the period. Organized around the history and development of formal devices such as the shot, montage, mise-en-scene, sound design, color technology and classical narrative form.

**FS 111 — Contemporary World Cinema**
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 110 or 110H  
Course Advisories: FS 101  
Hours: 72 (45 lecture, 27 lab)*
Study of international film history, theory and aesthetics, from 1960 to the present. The film medium is addressed as a technology, a business, an art form and as a medium that both reflects and creates popular culture.

**FS 112A — French Film**  
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 110 or 110H*  
*Course Advisories: FS 101 with a minimum grade of “C”*  
*Hours: 72 (45 lecture, 27 lab)*  
Study of French film history, from the invention of cinema in the 1890s to the present, focusing on changes in narrative and documentary films, as well as experimental movements. Covers significant movements, periods, genres, influences, as well as major directors. Lectures, discussions and readings are supplemented by the screening and critical analysis of representative films.

**FS 112B — Art Cinema**  
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 110 or 110H*  
*Course Advisories: FS 101 with a minimum grade of “C”*  
*Hours: 72 (45 lecture, 27 lab)*  
Study of art cinema beginning in the 1940s, continuing into its heyday in the 1960s, and developing into the contemporary era. Focuses on changes in narrative and cinematic styles, film auteurs, cultural influences, as well as film industries. Lectures, discussions and readings are supplemented by the screening and critical analysis of representative films.

**FS 113 — Experimental Film**  
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 110 or 110H*  
*Course Advisories: FS 101 with a minimum grade of “C”*  
*Hours: 72 (45 lecture, 27 lab)*  
Introduction to the development, history, theory and aesthetics of avant-garde, experimental and non-narrative cinema. Study of significant works, figures and movements related to these non-traditional cinematic forms. Examines representative examples of non-narrative films and explores their function as a counterweight to the more dominant forms of narrative and documentary.

**FS 114 — History of Animation**  
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 110 or 110H*  
*Course Advisories: FS 101 with a minimum grade of “C”*  
*Hours: 72 (45 lecture, 81 lab)*  
Overview and study of the history of animation films, from its prehistory in the late nineteenth century to current and emerging digital animation technologies. Lectures, discussions and readings are supplemented by the screening and critical analysis of representative films.

**FS 115 — The Vietnam War in Film**  
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 98 and 103*  
*Course Advisories: FS 101 with a minimum grade of “C”*  
*Hours: 72 (45 lecture, 27 lab)*  
Study of how one of America’s longest and most controversial military conflicts has been portrayed cinematically, and how films about the Vietnam War fit within the context of American cinema. Focuses on the diverse perspectives filmmakers have brought to cinematic explorations of the war, as well as on the technical, narrative and aesthetic techniques they have employed.

**FS 116 — Gender and Sexuality in Film**  
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 110 or 110H*  
*Course Advisories: FS 101 with a minimum grade of “C”*  
*Hours: 72 (45 lecture, 27 lab)*  
Survey of gender and sexuality in film, including the formation and reformation of stereotypes and social messages as reflections of the ages in which they were conceived. Film theory introduced, as well as an examination of female directors, their work and contributions to the canon. Covers cinematic representations of masculinity, femininity and alternative sexuality, from early cinema to present.

**FS 118 — Film Genres**  
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 98 and 103*  
*Course Advisories: FS 101 with a minimum grade of “C”*  
*Hours: 72 (45 lecture, 27 lab)*  
Genre study of the components of film as art and social expression. Investigates the origins, evolution and transformations of various film genres, including film noir, the Western, science-fiction, musical, horror,
FS 119 — Introduction to Film Comedy  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 110 or 110H  
Course Advisories: FS 101 with a minimum grade of “C”  
Hours: 72 (45 lecture, 27 lab)  

In-depth survey of significant American and international comedic films and how they have helped to advance and define the art of cinema. Landmark comedies featuring major directors and comic actors analyzed in terms of theme, structure and cinematic technique. Cultural relevance of comedies in mirroring and satirizing historical and social trends explored in depth.

FS 120 — Master Filmmakers  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 110 or 110H  
Course Advisories: FS 101 with a minimum grade of “C”  
Hours: 72 (45 lecture, 27 lab)  

Study of film directors and how their work has advanced and defined the art of cinema. Landmark films by celebrated directors, both foreign and domestic, analyzed in terms of theme, structure and cinematic technique. Emphasis placed on the role of the auteur. Directorial contributions to specific film genres are explored.

FS 121 — Documentary Film  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 110 or 110H  
Course Advisories: FS 101 with a minimum grade of “C”  
Hours: 72 (45 lecture, 27 lab)  

Introduction to the history and theory of documentary film. Traces the changing conceptions of “reality” by various international filmmakers and writers. Through the stylistic study of classical and less conventional films, the aim is to problematize notions of objectivity, truth and knowledge and to place the films within a historical, cultural and political context.

FS 173/ENG 173 — Screenwriting I  
(3) — CSU, UC*  
Prerequisites: ENG 70 and 100 or qualifying score on SBCC placement exam.  
Hours: 72 (45 lecture, 27 lab)  

Study of the elements of dramatic writing for the cinema: the three-act structure, character delineation and motivation, conflict development and pacing, dialogue and subtext, unifying the message. Analysis of feature film screenplays for their structure, pacing and characterization; writes scenes in correct format; and completes a treatment for a feature film or television. (*UC Transfer Limit: FS 173/ENG 173 combined with FS 174: maximum credit, one course)

FS 174 — Screenwriting II  
(3) — CSU, UC*  
Corequisites: FS 173/ENG 173 with minimum grade of “C”  
Hours: 72 (45 lecture, 27 lab)  

Study of the structure, development, pacing and revising of a completed screenplay. In addition to analyzing feature film and television screenplays, the student completes a screenplay, learns how to research a story, how to pitch a story, and how to market a script. (*UC Transfer Limit: FS 173/ENG 173 combined with FS 174: maximum credit, one course)

FS 295 — Internship in Film and Media Studies  
(2-4) — CSU  
Skills Advisories: Eligibility for ENG 110 or 110H  
Course Advisories: FS 101 with a minimum grade of “C”  
Limitation on Enrollment: Completion of two courses (in applicable discipline) at SBCC prior to enrolling in an internship course.  
Hours: 216 lab  

Structured internship program in which students gain experience with community organizations related to the discipline.

FS 299 — Independent Study-Film and Media Studies  
(1-4) — CSU  
Skills Advisories: Eligibility for ENG 98; ENG 103  
Course Advisories: FS 101 with a minimum grade of “C”  
Limitation on Enrollment: Completion of a minimum of 12 units at SBCC, with a 2.5 GPA, and a minimum of six (6) units with a 3.0 GPA in Film Studies.  
Hours: 48-192 lab  

Advanced study of film and related fields under the direction and supervision of the Film and Media Studies Department faculty. (*UC Transfer Limit: 299 computed as Independent Studies; see counselor)
Film and Television Production

Degree and Awards
Associate in Arts Degree: Film Production
Skills Competency Award: Digital Audio Production
Skills Competency Award: Digital Cinematography
Skills Competency Award: Digital Non-Linear Editing
Skills Competency Award: Directing for Film and Video
Skills Competency Award: Documentary Filmmaking
Skills Competency Award: Independent Film Producing
Skills Competency Award: Motion Graphics and Broadcast Design

Program Description
Film is a universally recognized medium that has a profound impact on how we view the world and ourselves. Filmmaking is the most collaborative of art forms. It demands the cooperation and dedication of screenwriter, cinematographer, producer, director and editor working together in a complex, creative enterprise. Film and Television explores the theory, criticism and production of motion pictures.

The Film and Television Department at Santa Barbara City College offers a wide variety of courses designed for film majors and interested non-majors who wish to enhance their knowledge and appreciation of film as part of their undergraduate education. Students are exposed to a vast array of films from the classic to the contemporary, including both American and international works.

Motion picture production is a new and vital component of the Film and Television Department at SBCC. Students are now able to apply their critical and theoretical understanding of film art in a comprehensive production program which includes hands-on experience in screenwriting, production, cinematography, directing, editing and visual effects.

The Film and Television Production program provides students with the knowledge and skills associated with every phase of motion picture production, from screenwriting through production and directing, to editing and post-production processes. Electives provide the option to explore any phase of motion picture production in greater depth.

Program Student Learning Outcomes
1. Conceive and script a short film.
2. Plan and budget a short film.
3. Shoot, light and record sound for a short crew production.
4. Edit and output a finished short film.

Faculty and Offices
Curtis Bieber, Chair
(H-230, ext. 2951, bieber@sbcc.edu)
Stephen DaVega, Associate Professor
(DAC, ext. 3570, davega@sbcc.edu)
Alice Perez, Dean (A-117, ext. 3625)

AA Degree: Film Production
Department Requirements (33-34 units)
Required Core Classes and Electives (recommended sequence)

Year 1 – Fall
FS 101 — Introduction to Film or .................................................3
FS 101H — Introduction to Film, Honors ..................................4
FS 173 — Screenwriting I or .......................................................3
ENG 173 — Screenwriting I or ..............................................3
FP 102 — Writing for Television ..............................................3
FP 181 — Production Sound for Film and Television .............3

Year 1 – Spring
FP 114 — Non-Linear Editing I .................................................3
FP 170 — Cinematography I .....................................................3
FP 175 — Film and Video Production I .................................3

Year 2 – Fall
FP 185 — Directing for the Camera or ......................................3
TA 185 — Directing for the Camera .........................................3
*Elective .....................................................................................3
*Elective .....................................................................................3

Year 2 – Spring
FP 275 — Production II – Narrative Filmmaking .....................3
*Elective .....................................................................................3
Film and Television Production Courses

FP 102 — Writing for Television
(3) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 90 (36 lecture, 54 lab)
Introduction to fundamentals of writing for television and the short form, including elements of a story, character and dialog, pitching and formatting. Examples of successful television scripts are analyzed and students produce a short teleplay.

FP 106 — Digital Editing Tools
(1.5) — CSU
Hours: 45 (18 lecture, 27 lab)
Eight-week intensive course on how to edit digital video, using non-linear editing software. Students learn the basic tools used to acquire, edit and output a finished digital movie.

FP 111 — Independent Producing for Motion Pictures
(3) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Course Advisories: FP 175
Hours: 54 lecture
Introductory course identifying the tools and skills necessary for producing independent motion pictures. Analysis of professional development, production methods, current financing options, and distribution strategies are considered in developing a producing practice.

FP 114 — Non-Linear Editing I
(3) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 90 (36 lecture, 54 lab)
Overview of desktop non-linear video editing, including acquiring digital video and combining and editing source material to create complete digital movies. Topics include basic editing techniques; cuts and transitions; adding and altering audio; titling; keying and transparency; and applying filters and effects.

*Elective chosen from the following courses:
FP 160 — Television Studio Production ............................. 3
FP 165 — Television Field Production .............................. 3
FP 178 — Documentary Filmmaking ............................... 3
FP 207 — Color Correction for Film ............................... 3
FP 214 — Non-Linear Editing II ................................. 3
FP 270 — Cinematography II ....................................... 3
FP 276 — Production II — Commercial Applications .......... 3
FP 277 — Motion Graphics II ......................................... 3
FP 279 — Motion Graphics and Compositing .................... 3
FP 285 — Directing for the Camera II ............................. 3
FS 174 — Screenwriting II ............................................. 3
TA 218 — Acting for Camera .......................................... 3

College Requirements
For complete information, see “Graduation Requirements” in the Catalog Index.

Skills Competency Award:
Motion Graphics and Broadcast Design
Department Requirements (12 units)
FP 114 — Non-Linear Editing I ........................................ 3
FP 207 — Color Correction for Film ............................... 3
FP 279 — Motion Graphics and Compositing .................... 3
MAT 131 — Digital Imaging I .......................................... 3
Students must complete all courses with a grade of “C” or Pass. Candidates for a Skills Competency Award are required to complete at least 20% of the department requirements through SBCC.

Skills Competency Award:
Independent Film Producing
Department Requirements (12 units)
FP 102 — Writing for Television ....................................... 3
FP 111 — Independent Producing for Motion Pictures ....... 3
FP 175 — Film and Video Production I ........................... 3
FP 275 — Production II: Narrative Filmmaking ................ 3
Students must complete all courses with a grade of “C” or Pass. Candidates for a Skills Competency Award are required to complete at least 20% of the department requirements through SBCC.
FP 160 — Television Studio Production
(3) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 90 (36 lecture, 54 lab)
Introduction to fundamentals of television studio production, including producing, directing, scriptwriting, performing, production crewing, studio lighting, production design and post-production. Through basic studio exercises and productions, students become familiar with the tools of the medium and the processes involved in the creation of television programming.

FP 165 — Television Field Production
(3) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 90 (36 lecture, 54 lab)
Work in television field production, including producing, directing, scriptwriting, performing, production crewing, field lighting, production design and post-production. Through basic field exercises and productions, students become familiar with the tools of the medium and the protocols and processes involved in the creation of television programming on location.

FP 170 — Cinematography I
(3) — CSU, UC
Hours: 90 (36 lecture, 54 lab)
Introduction to video camera operation and lighting, covering technical and aesthetic issues of studio and location shooting. Technical issues include digital and analog video cameras, lenses and tape formats, lighting and grip equipment, and basic sound acquisition. Aesthetic topics focus on using composition, color, light and shadow to create an appropriate look and feel for a scene.

FP 175 — Film and Video Production I
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 98 and 103
Course Advisories: FP 114 and 170 and FS 173/ENG 173
Hours: 90 (36 lecture, 54 lab)
Introduction to the film and video production process, including scripting, storyboarding, pre-production planning, budgeting, casting, shooting, lighting, sound and editing in both studio and location settings. Students write, produce, direct and edit a personal project and participate in group assignments and projects.

FP 178 — Documentary Filmmaking
(3) — CSU
Course Advisories: FP 175
Hours: 90 (36 lecture, 54 lab)
Develop storytelling and video production skills through nonfiction filmmaking. Focusing on structure, technique, technical skills and the creative process, explore documentary history, learn the tools, and push beyond the limits of time and resources. Refine the ability to reach an audience and meet the objectives. Students produce a number of short films.

FP 179/MAT 179 — Media for Mobile Devices
(3) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Course Advisories: FP 114 and 170 and 175
Hours: 90 (36 lecture, 54 lab)
Introduction to media production for mobile devices, including the practicalities of producing content for mobile phones, portable gaming consoles and video ipods. Includes specific format, content and technologies for mobile deployment; distribution of media for both video and audio podcasting; and broadcast protocols to PDAs, phones and other devices.

FP 181 — Production Sound for Film and Television
(3) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 90 (36 lecture, 54 lab)
Focuses on the techniques, processes and equipment of production sound, including location and studio recording. Covers dialogue, atmosphere, roomtone, Foley, ADR, voice over, sound effects, and the synchronization, recording and editing of digital audio to picture.

FP 185 — Directing for the Camera
(3) — CSU, UC
Prerequisites: FP 175
Hours: 90 (36 lecture, 54 lab)
Introduction to directing for the camera, including principles of drama, conceptualization of visuals, storyboarding, shot breakdowns, auditioning the actor, staging actors, improvisation, staging the camera, art direction, lighting and sound strategies; also covers blocking, shot execution, development of a signature directorial style, and on-set procedures and protocols.
FP 201 — Narrative in Film
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 lecture
Exploration of the theory, art, and craft of both fiction and non-fiction storytelling in film, video and time-based media. Theoretical and practical issues of creating effective narratives are examined. Students will begin to identify and develop their personal voice.

FP 207 — Color Correction for Film
(3) — CSU
Prerequisites: Prior or concurrent enrollment in FP 114
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 90 (36 lecture, 54 lab)
Fundamentals of digital color correction for moving and still imagery to enhance mood, continuity and story. Appropriate for editors, motion graphic artists and cinematographers. Covers color theory and primary/secondary correction in a variety of software. Current industry trends and styles discussed.

FP 214 — Non-Linear Editing II
(3) — CSU
Prerequisites: FP 114
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 90 (36 lecture, 54 lab)
Advanced studies in concepts and techniques of desktop non-linear editing, including both technical and aesthetic issues. Large-project management, creating EDLs and client-based editing are covered. Collaborative aspect of editing and how it fits into the production work flow is emphasized. Current trends and styles in editing are discussed.

FP 253/PE 253 — Experimental Filmmaking and Dance
(3) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Corequisites: FP 170 or PE 252
Hours: 90 (36 lecture, 54 lab)
Issues and practices of creating dance for the camera, emerging technologies and new genre filmmaking. Students collaborate to create their own dance compositions, and use experimental film and lighting techniques to make short dance films.

FP 270 — Cinematography II
(3) — CSU
Prerequisites: FP 170
Hours: 90 (36 lecture, 54 lab)
Advanced concepts and techniques in digital video shooting, lighting and visual story-telling in multicamera, documentary and dramatic productions. Students shoot and light a variety of scenarios for presentation and evaluation.

FP 275 — Production II: Narrative Filmmaking
(3) — CSU, UC
Prerequisites: FP 175
Hours: 90 (36 lecture, 54 lab)
Advanced concepts and production skills specific to narrative filmmaking, including scripting, storyboarding, pre-production planning, budgeting, casting, shooting, lighting, sound and editing. Students write, produce, direct and edit a personal narrative project and participate in a group narrative project. Current trends and styles in production are discussed.

FP 276 — Production II: Commercial Applications
(3) — CSU
Prerequisites: FP 275
Hours: 90 (36 lecture, 54 lab)
Advanced concepts and production skills specific to creating music videos, commercials and corporate/industrial video, from conceptualization through post-production. Protocols, history, conventions and trends in each area are discussed. Students work collaboratively to conceive, develop and produce three representative projects.

FP 277 — Motion Graphics II
(3) — CSU
Prerequisites: FP 177
Hours: 90 (36 lecture, 54 lab)
Advanced studies in concepts and techniques of motion graphics, compositing and 2D animation, including both technical and aesthetic issues. Students focus on one area to explore in depth and further develop their skills. Collaboration within the production work flow is emphasized. Current trends and styles are discussed.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Requirements</th>
<th>Description</th>
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<tbody>
<tr>
<td>FP 278</td>
<td>Production II: Documentary Filmmaking</td>
<td>3</td>
<td>Corequisite: FP 175 with a minimum grade of “C”</td>
<td>Advanced concepts and production skills specific to documentary filmmaking. Includes selected national and international documentary screenings and discussions along with practical exercises, from conceptualization through post-production, that culminate in the production of a short documentary.</td>
</tr>
<tr>
<td>FP 279</td>
<td>Motion Graphics and Compositing</td>
<td>3</td>
<td>Prerequisite: FP 114 with a minimum grade of “C” or MAT 131 with a minimum grade of “C”</td>
<td>Motion graphics, compositing and 2D animation theory and practice for film and video applications, including both technical and aesthetic issues. Current industry trends and styles are examined.</td>
</tr>
<tr>
<td>FP 281</td>
<td>Post-Production Sound for Film and Television</td>
<td>3</td>
<td>Skills Advisories: Eligibility for ENG 98 and 103</td>
<td>Focuses on the creative development of sound elements for post-production in film and television, such as ADR, Foley, sound effect recording/design, music editing, dialogue editing and the final mixing and mastering process. Includes techniques in field recording, studio recording and sound design for film and television.</td>
</tr>
<tr>
<td>FP 284</td>
<td>Transmedia Production</td>
<td>3</td>
<td>Prerequisites: FP 114 and 175</td>
<td>In this multi-disciplinary capstone course, student teams are tasked with producing a real-world transmedia project. Collaborating with, and learning from, the various disciplines represented, each team works toward producing a short film, while concurrently developing complementary transmedia elements, including a website, a blog, a mobile app, and campaigns in traditional and social media.</td>
</tr>
<tr>
<td>FP 285</td>
<td>Directing for the Camera II</td>
<td>3</td>
<td>Prerequisites: FP 185/TA 185</td>
<td>Advanced directing for the camera, covering technical and aesthetic facets of the director’s art. Focuses on issues and techniques in the operation of digital motion picture cameras, lighting and sound equipment, conceptualization of visuals, auditioning and staging actors, and development of a signature directorial style.</td>
</tr>
<tr>
<td>FP 294</td>
<td>Film Production Capstone</td>
<td>6</td>
<td>Prerequisites: FP 102 or FS 173 or FP 275 and FP 207 or FP 214 or FP 270 or FP 281 or FP 279 or FP 285, FP 201</td>
<td>A capstone course for Film Production students near the completion of their program. A festival-ready short film will be produced by the students with crew rolls assigned based on individual skills and goals. Emphasis on creating a highly polished short film, requiring full commitment from all participants in a professional environment.</td>
</tr>
</tbody>
</table>
Finance, International Business and Marketing

Degrees, Certificates and Awards
Associate in Arts: Finance
Associate in Arts: International Business
Associate in Arts: Marketing
Certificate of Achievement: Finance
Certificate of Achievement: International Business
Certificate of Achievement: Marketing
Skills Competency Award: Sales and Marketing
Skills Competency Award: International Marketing Communication
Skills Competency Award: International Marketing: Fashion and Beauty
Skills Competency Award: Web Marketing and Media Design (in conjunction with Multimedia Arts & Technologies Department)
Skills Competency Award: Public Relations (in conjunction with Journalism Department)

Program Description
This department offers personal and professional, transferable and degree programs in finance. Students interested in the financial services industry should consider the course of study described for the Finance Certificate. Additional courses in personal money management and real estate investment offer opportunities for personal development. These programs have been designed in consultation with leading local professionals. Commercial and investment banks, savings and loans, credit unions, thrifts and finance companies are looking for candidates with these skills.

The International Business Program provides an introduction to the central aspects of international business. Topics include the economic, political and social environments in which we operate; how international activities alter the strategies for success in management tasks of planning, marketing, finance, law and personnel; and the principles associated with the international exchange of goods, services and investments. Unique applied short courses are offered in the spring in international business law and basics of importing and exporting.

Marketing courses are designed to lead people to job opportunities in the fields of advertising, marketing, retail sales, wholesaling and international marketing. Concepts of planning and developing products and services are emphasized, along with studies of packaging, distribution and government regulations.

Program Student Learning Outcomes
1. Explain general management functions, roles and responsibilities required to effectively manage todays contemporary organizations.
2. Recognize the ethical issues facing managers and apply decision-making techniques and ethical reasoning to resolve 21st century ethical dilemmas.
3. Work effectively in teams and appreciate the meaning of mutual responsibility.
4. Access and interpret information, respond and adapt to a dynamic business environment, make complex decisions, solve problems, and evaluate outcomes.

Department Offices
Division: Business Education
Julie Ann Brown, Chair (BC-308, ext. 3599)
Melissa Moreno, Dean (Wake Campus, Rm. 1, ext. 8284)

Faculty and Offices
Susan Block (BC-208, ext. 3793)
Julie Ann Brown (BC-308, ext. 3599)
Peter Naylor (BC-210, ext. 2350)
Jill Scala (BC-115, ext. 3793)

Requirements for AA Degree: Finance
The Associate Degree will be awarded upon completion of department and college requirements. For success in business, a liberal education is invaluable. Particularly important are communication (written, oral and behavioral), quantitative (mathematics and statistics), and computer skills (word processing, spreadsheets, presentations and database management).
Designed to equip the student with the specific techniques of business financial management—anticipation of cash needs, acquisition of financial resources, and allocation of cash in the company. Financial statement analysis, financing business activity, capital budgeting and working capital management are emphasized.

**Department Requirements (37-43 units)**

- **ACCT 230** — Financial Accounting ........................................5
- **BLAW 101** — Business Law **or**
  - BLAW 110 — Legal Environment of Business ..................4
- **ECON 101** — Microeconomics ...........................................3
- **FIN 101** — Introduction to Finance and Banking ................3
- **FIN 201** — Investing: Securities Analysis ...........................3
- **FIN 202** — Managerial Finance ........................................3

*ACCT 210 will also satisfy this requirement.

**Support Courses: Select 16-22 units from the following (may be double-counted in applicable general education areas):**

- **ANTE 103** — Introduction to Cultural Anthropology **or**
  - GEOG 102 — Human Geography **or**
  - PHIL 102 — Comparative World Religions **or**
  - PHIL 102H — Comparative World Religions, Honors .......3
- **COMM 161** — Communication in Organizations **or**
  - COMM 162 — Mediated Comm. in Organizations ..........3
- **ERTH 141/141L** — Physical Geography and Lab **or**
  - GEOG 101/101L — Physical Geography and Lab ..........4
- **MATH 107+** — Intermediate Algebra **or**
  - MATH 111+ — Intermediate Algebra for Math, Science and Business Majors ........................................4-5
- **PHIL 101** — Introduction to Ethics **or**
  - PHIL 101H — Introduction to Ethics, Honors ............3-4
- **POLS 104** — American Government:
  - Policy Issues/Process .................................................3

+ An assessment score higher than MATH 104 or 107 or 111 will also satisfy this requirement.

**Optional:**

- **BUS 290** — Work Experience in Business Admin ..........1-4

**Requirements for AA Degree: International Business**

The Associate Degree will be awarded upon completion of department and college requirements.

**Department Requirements (21 units)**

- IBUS 102 — Introduction to International Business ..........3
- IBUS 109 — Basics of Importing and Exporting ............3
- IBUS 201 — International Human Resource Management ....3
- IBUS 211 — Legal Environment of International Business ..3
- MKT 164 — Online and Mobile Marketing **or** ..................3
- MAT 164 — Online and Mobile Marketing **or** .............3
- MKT 212 — Supply Chain Logistics **or** .......................3
- FIN 211 — Skills in Trade Finance **or** .........................3
- COMM 151 — Intercultural Communication **or** ..........3
- ECON 106 — International Economics ............................3
- MKT 209 — International Marketing .............................3
- MKT 220 — Introduction to Electronic Commerce **or** ....3
  - CIS 220 — Introduction to Electronic Commerce ........3

**College Requirements**

For complete information, see “Graduation Requirements” in the Catalog Index.

**Requirements for AA Degree: Marketing**

The Associate Degree will be awarded upon completion of department and college requirements.

**Department Requirements (24-26 units)**

- MKT 101 — Introduction to Marketing ..................................3
- MKT 164 — Online and Mobile Marketing **or**
  - MAT 164 — Online and Mobile Marketing ..........3
- MKT 203 — Marketing Communications ..........................3
- MKT 205 — Consumer Selling Strategies ....................3
- MKT 215 — Segmentation and Target Marketing ............3
- MKT 220/CIS 220 — Intro to Electronic Commerce ..........3

**Electives (6 units) selected from the following:**

- **COMP 101** — Introduction to Computer Applications ....4
- **COMP 111** — Microsoft Access .....................................4
- **FP 276** — Production II: Commercial Applications ....3
- **GDP 114** — Graphic Design I ....................................3
IBUS 102 — Introduction to International Business ..........3
MAT 131 — Digital Imaging I.........................................3
MAT 153 — Web Design I.............................................3
MKT 120 — Relationship Selling..................................3
MKT 125 — Principles of Customer Service................3
MKT 135 — Public Relations or JOUR 135 — Public Relations ..................3
MKT 209 — International Marketing............................3
*Note: Each required course must be completed with a minimum grade of “C”.

College Requirements
For complete information, see “Graduation Requirements” in the Catalog Index.

Requirements for Certificate of Achievement: Finance
Department Requirements (21 units)
ACCT 230* — Financial Accounting..................................5
BLAW 101 — Business Law or BLAW 110 — Legal Environment of Business ........4
ECON 101 — Microeconomics........................................3
FIN 101 — Introduction to Finance and Banking................3
FIN 201 — Investing: Securities Analysis..........................3
FIN 202 — Managerial Finance........................................3
*ACCT 210 (1) will also satisfy this requirement.
Optional
BUS 290 — Work Experience in Business Admin..............1-4
Students must complete all department requirements with a cumulative GPA of 2.0 or better.

Requirements for Certificate of Achievement: International Business
Department Requirements (21 units)
IBUS 102 — Introduction to International Business ..........3
IBUS 109 — Basics of Importing and Exporting.................3
IBUS 201 — International Human Resource Management.....3
IBUS 211 — Legal Environment of International Business ..3
MKT 164 — Online and Mobile Marketing or COMP 101 — Introduction to Computer Applications ....4
MAT 131 — Digital Imaging I.........................................3
MAT 153 — Web Design I.............................................3
MKT 120 — Relationship Selling..................................3
MKT 125 — Principles of Customer Service................3
MKT 209 — International Marketing............................3
*Note: Complete all department requirements with a “C” or better in each course. Candidates for a Certificate of Achievement are required to complete at least 20% of the department requirements through SBCC.
Requirements for Skills Competency Award: Sales and Marketing
Department Requirements (16 units)
BUS 101 — Introduction to Business ................................ 3
COMP 103 — Internet Communications ............................. 1
COMP 171 — Business English .............................................. 3
MKT 101 — Introduction to Marketing .................................. 3
MKT 203 — Marketing Communications ............................ 3
MKT 205 — Consumer Selling Strategies ................................ 3
Optional:
BUS 290 — Work Experience in Business Admin. ............... 1-4
Students must complete the above courses with a grade of “C” or higher or credit in all courses.

Requirements for Skills Competency Award: International Marketing Communication
Department Requirements (12 units)
IBUS 102 — Introduction to International Business ............. 3
COMM 151 — Intercultural Communication .......................... 3
IBUS 109 — Basics of Importing and Exporting .................... 3
MKT 209 — International Marketing ...................................... 3
Students must complete the above courses with a grade of “C” or higher or credit in all courses.

Requirements for Skills Competency Award: International Marketing: Fashion and Beauty
Department Requirements (9 units)
IBUS 271 — International Fashion and Beauty Product Development ...................................................... 3
IBUS 273 — Global Fashion and Beauty Industry Marketing ................................................................. 3
IBUS 275 — Global Fashion Trends in Retail and E-tail ........ 3
Students must complete the above courses with a grade of “C” or higher or credit in all courses.

Requirements for Skills Competency Award: Web Marketing and Media Design
Department Requirements (12 units)
GDP 110 — Media Design .................................................... 3
MAT 131 — Digital Imaging I ................................................. 3
MAT 153 — Web Design I ..................................................... 3
MKT 220/CIS 220 — Intro to Electronic Commerce ............ 3
Students must complete the above courses with a grade of “C” or higher or credit in all courses.

Requirements for Skills Competency Award: Public Relations
Department Requirements (15-15.5 units)
COMM 171 — Mass Media and Society ............................... 3
COMP 139 — Social Networking for Business and .......... 0.5
COMP 271 — Business Communication or ....................... 3
COMM 161 — Communication in Organizations ................ 3
JOUR 101 — Reporting/Writing I ......................................... 3
JOUR 135/MKT 135 — Public Relations ............................ 3
MKT 101 — Introduction to Marketing ............................... 3
Students must complete the above courses with a grade of “C” or higher or credit in all courses.

Program Cost and Outcome
For planning purposes, the webpages to follow provide information on the cost of attendance, program length (assuming a student attends full-time), financing options and historical student completion rates:

Finance Courses
www.sbcc.edu/financialaid/gainfulemployment/Finance.htm

International Business Courses
www.sbcc.edu/financialaid/gainfulemployment/International%20Business.htm

Marketing Courses
www.sbcc.edu/financialaid/gainfulemployment/Marketing.htm

Finance Courses
FIN 010 — Financial Basics (1)
Hours: 18 lecture
Practical money management for students living independently. Topics include career guidance, college financing, budgeting, money, bank accounts, credit cards and debt management.
FIN 100 — Personal Money Management
(3) — CSU/UC
Skills Advisories: MATH 4 and Eligibility for ENG 110 or 110H
Hours: 54 lecture
Thorough introduction to all areas of personal financial planning, including financial goal-setting, budgeting, consumer credit, taxes, insurance, investing, housing, retirement and estate planning. Emphasis on planning and budgeting to satisfy immediate needs and achieve long-term goals.

FIN 101 — Introduction to Finance and Banking
(3) — CSU
Skills Advisories: MATH 95 and Eligibility for ENG 110 or 110H
Hours: 54 lecture
Central concepts of finance are developed: money and economic activity, interest rates and valuation, securities and investments, bank regulation and management. Professionals discuss commercial and real estate loans, loan administration, the cashier’s office and trusts.

FIN 201 — Investing: Securities Analysis
(3) — CSU
Skills Advisories: MATH 95 and Eligibility for ENG 110 or 110H
Hours: 54 lecture
Techniques and concepts of investing, including the economic function of financial markets, investment risk and return, bonds and portfolio management, equity investing and fundamental analysis.

FIN 202 — Managerial Finance
(3) — CSU
Skills Advisories: MATH 95 and Eligibility for ENG 110 or 110H
Hours: 54 lecture
Designed to equip the student with the specific techniques of business financial management—anticipation of cash needs, acquisition of financial resources, and allocation of cash in the company. Financial statement analysis, financing business activity, capital budgeting and working capital management are emphasized.

FIN 203 — Management of Financial Institutions
(3) — CSU
Skills Advisories: MATH 95 and Eligibility for ENG 110 or 110H
Hours: 54 lecture
Analysis of the crucial issues of bank management: asset and liability management, liquidity planning, investment strategies, credit administration and bank regulation.

FIN 204 — Real Estate Investment
(3) — CSU
Skills Advisories: MATH 95 and Eligibility for ENG 110 or 110H
Course Advisories: BUS 101
Hours: 54 lecture
Thorough development of the principles and practices of real estate investment. Special topics include financial analysis, commercial leases, property exchange, taxation and depreciation.

FIN 211 — Skills in Trade Finance
(3) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Understanding the process of international trade finance and the core skills needed to participate in various trade finance situations. Emphasis is on practical information regarding risk management, transactions structure and finance. Includes presentations, class exercises and field trips.

FIN 290 — Work Experience in Finance
(1-4) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
75 hours of work experience = 1 unit of credit.
Hours: 60-300 lab
Consists of supervised employment for students whose career objectives, course of study and employment complement each other. Students must accomplish specific course objectives. Class meetings on campus are scheduled each semester.
International Business Courses

IBUS 102 — Introduction to International Business  
(3) — CSU  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture  
Basic management principles for the international arena. The environment of international business, including politics, culture and economics, are emphasized. The structure of multinational companies, international trade and international finance also receive attention. Topics include global strategic planning, global organization, global production, marketing, human resources strategies, political risk and negotiation, and international financial management.

IBUS 109 — Basics of Importing and Exporting  
(3) — CSU  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture  
Practical importing and exporting: logistics, documents, contract administration, terminology, quality control and payment procedures. Students develop a research document for an international marketing plan.

IBUS 110 — International Business Law  
(1.5) — CSU  
Skills Advisories: Eligibility for ENG 110 or 110H  
Course Advisories: BUS 101 or IBUS 102  
Hours: 27 lecture  
Introduction to international business law. Topics include contracts, documents, carriage, trade finance, marketing, licensing, regulations and political risk.

IBUS 201 — International Human Resource Management  
(3) — CSU  
Skills Advisories: Eligibility for ENG 110 or 110H  
Course Advisories: IBUS 102  
Hours: 54 lecture  
Examines the functions of personnel management applied to international business. The first half of the course develops management tasks. Topics include organization, recruitment, training, evaluation, compensation, repatriation and labor relations. The second half of the course focuses on organizational behavior and structure.

IBUS 210 — International Trade Skills for Global Business Professionals  
(3) — CSU  
Skills Advisories: Eligibility for ENG 98  
Hours: 54 lecture  
Provides a detailed overview of the skills required for a career as a global business professional. Also, designed as a preparatory course for those wishing to apply for the NASBITE Certified Global Business Professional (CGBP) designation (www.NASBITE.org).

IBUS 211 — Legal Environment of International Business  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture  
Introduction to international business law and conflict resolution. Topics include contracts, documents, carriage, trade finance, marketing, licensing, regulations and political risks, as well as negotiations, mediation and arbitration methods.

IBUS 271 — International Fashion and Beauty Product Development  
(3) — CSU  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture  
Study of fashion and beauty product development. Covers entire product life cycle. Once a product is approved for consumer use, product developers are responsible for its successful public launch. They create and deliver presentations and campaigns to effectively market new items. Product developers plan, prepare and present their new creations.

IBUS 273 — Global Fashion and Beauty Industry Marketing  
(3) — CSU  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture  
Global trends in beauty, unlike any other period of time, now cross borders and boundaries via international travel and technology. Understanding the roles of segmentation and consumer behavior in this industry and social era of business is necessary for profitability and long-term relationship connections.
IBUS 275 — Global Fashion Trends in Retail and E-tail
(3) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture

Traditional and e-commerce global fashion and beauty industry. Online shopping has streamlined this process for increased utility for all business channel members. The universal principles of retailing from the first exchange process to the latest e-commerce are discussed, as well as the empowerment of the consumer via social media platforms.

Marketing Courses

MKT 101 — Introduction to Marketing
(3) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture

Examines the critical role of marketing in customer-driven marketplaces. Topics include marketing research, customer-driven marketing, marketing strategies of for-profit businesses, as well as not-for-profit businesses, and institutions. Includes advertising as well as the other elements of promotion. Course material is reinforced with the use of marketing computer simulation.

MKT 120 — Relationship Selling
(3) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture

Theories, principles and techniques of creating relationships within the process of selling. Study areas include application of current theories within the fields of psychology and technology for obtaining increased buyer-seller relationship utility in the marketplace.

MKT 125 — Principles of Customer Service
(3) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture

Introduction to the theories, principles and practices of customer service. Analysis of creating complementary relationships that focus on participatory partnering and reciprocity conducted.

MKT 135/JOUR 135 — Public Relations
(3) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture

Survey of public relations history, theories and practices, focusing on applications to business, public and nonprofit agencies and institutions. Practical approach to using the media, creating press releases, organizing and executing campaigns, and promoting favorable relations with various segments of the public.

MKT 164/MAT 164 — Online and Mobile Marketing
(3) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 lecture

Introduction to those components needed to develop effective online and search engine marketing (SEM) strategies. Emerging digital media and mobile advertising campaign development are emphasized. Includes search engine optimization (SEO), paid placement ads, keyword identification, placement strategies, SEM research and management tools, and applications in mobile marketing and video advertising.

MKT 200A — Social Media and Self-Branding
(3) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 lecture

Social media and self-branding are critical to organizational success in real and digital marketing exchanges. Using social media to convert potential customers into advocates or users.

MKT 201A — Marketing Strategy and Positioning
(3) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture

Understand customer and product profitability and how to position a firm and product for growth. Takes an in-depth look at pricing, competitive dynamics, comparative advantage and how to integrate marketing strategy into an overall plan. Understand customer and product profitability and how to position a firm and product for growth.
MKT 203 — Marketing Communications
(3) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: MKT 101
Hours: 54 lecture

Study of how businesses use marketing to communicate through advertising and public relations. Topics include identifying target markets, selecting types of media, evaluating and developing ads, and implementation of public relations programs.

MKT 205 — Consumer Selling Strategies
(3) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: MKT 101
Hours: 54 lecture

Study of the principles of sales and customer service. Examines how the differences between buyers and sellers impact sales, purchasing and service decisions. Also briefly reviews the use of marketing research methods.

MKT 209 — International Marketing
(3) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: MKT 101
Hours: 54 lecture

Theory and practice of marketing on an international scale. Presents information on the global nature of the marketing process and its impact upon the effectiveness of firms entering a different market. Special emphasis is on economic and business systems throughout the world. Provides information about the Pacific Rim and EC markets and their development.

MKT 212 — Supply Chain Logistics
(3) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture

The key elements of international logistics, including definitions, regulations, documentations, transportation, warehousing and pricing, as well as emerging issues of the industry in today’s economy. Includes practical exercises and lectures.

MKT 215 — Segmentation and Target Marketing
(3) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: MKT 101
Hours: 54 lecture

Demographics and target marketing are the fundamental concepts by which all ideas begin their developmental process on the way to market launch. Understanding the components of demographics, psychographics, geographics and benefit segmentation have, through technology, allowed all-size target markets to potentially be served with achievable profitability.

MKT 220/CIS 220 — Introduction to Electronic Commerce
(3) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: BUS 101 and COMP 103
Hours: 54 lecture

Survey of electronic commerce and the use of the Internet to conduct business. Includes an interdisciplinary exploration of the issues, trends, opportunities and technologies which shape electronic commerce.
Fire Technology

These are special topics courses related to Fire Technology, and are restricted to those holding a current Firefighter 1 Certificate.

Staff and Office
Melissa Moreno, Dean
(Wake Campus, Rm. 1, ext. 8292)

Fire Technology Courses

FT 200 — Aircraft Rescue
(2.5) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Limitation on Enrollment: Current FAA Firefighter certification/Firefighter 1 Certificate and EMT certification
Hours: 45 lecture

Aircraft rescue and firefighting techniques, including tactics, extinguishing agents, and aircraft and airport familiarization.

FT 201 — Pathogens Refresher
(0.3) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Limitation on Enrollment: Firefighter 1 Certificate
Hours: 5 lecture

Risks of occupational exposure to pathogens; techniques for reducing risks, including protective clothing protocols; and techniques for dealing with those exposed to infectious diseases.

FT 202 — First Responder Hazmat
(1) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Limitation on Enrollment: Firefighter 1 Certificate
Hours: 18 lecture

Provides first responders with improved capability to respond to hazmat events in a confident and safe manner.

FT 203 — Rope Rescue
(0.5) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Limitation on Enrollment: Firefighter 1 Certificate
Hours: 9 lecture

Review of rope rescue techniques, including anchor systems and knots, mechanical advantage systems, raising and lowering systems and patient packaging.

FT 204 — Shoring and Breaching
(0.5-1) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Limitation on Enrollment: Firefighter 1 Certificate
Hours: 9 lecture

Special search and rescue skills for firefighters, including emergency shoring of buildings and trenches. Teaches breaching of collapsed buildings and structures for search and rescue.

FT 205 — Trench Operations
(0.5) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Limitation on Enrollment: Firefighter 1 Certificate
Hours: 9 lecture

Techniques used in unsupported trench rescue, including storm and sewer lines, wells and cliff collapses.

FT 206 — Vehicle Extrication
(0.5-1.5) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Limitation on Enrollment: Firefighter 1 Certificate and current EMT certification
Hours: 27 lecture

Systematic approach to vehicle extrication techniques, followed by review and application of theory and practices.

FT 207 — Water Rescue
(0.3) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Limitation on Enrollment: Firefighter 1 Certificate
Hours: 5 lecture

Information and techniques to safely effect rescue of a victim in an aquatic environment. Emphasizes fire department rescue procedures.
FT 208 — Wildland Firefighting  
(0.5) — CSU  
Skills Advisories: Eligibility for ENG 98 and 103  
Limitation on Enrollment: Firefighter 1 Certificate  
Hours: 9 lecture  
Firefighting techniques for those with primary and secondary wildland fire responsibilities, as well as those who may be intermittently called into a wildfire situation.

FT 209 — Rapid Intervention  
(0.3-0.5) — CSU  
Skills Advisories: Eligibility for ENG 98 and 103  
Limitation on Enrollment: Firefighter 1 Certificate  
Hours: 5-9 lecture  
Systematic approach to search and rescue techniques for rapid intervention crews.

FT 210 — Confined Space  
(0.5) — CSU  
Skills Advisories: Eligibility for ENG 98 and 103  
Limitation on Enrollment: Firefighter 1 Certificate  
Hours: 9 lecture  
Firefighter guidelines and practice for entry and rescue operations for extricating person(s) trapped in a confined space.
Geography

Degrees
Associate in Arts Degree: Geography
Associate in Arts Degree (AA-T): Geography for Transfer

Program Description
Geography is the science of space and place. Geographers study spatial distributions and relations within Earth’s human-environment systems, incorporating historic and contemporary human activities within the context of the biophysical and cultural environments, and the emergence of humanity as one of the major agents of change on Earth. The geography program exposes students to many of the tools and technologies employed by earth science professionals, including Geographic Information Systems (GIS) and Global Positioning Systems (GPS).

The Geography Major
The Associate in Arts Degree in Geography provides for a liberal education and prepares one for positions in business, government, environmental consulting, resource management, teaching, and service in foreign areas.

Many geography courses satisfy GE requirements and appeal to the major and non-major alike. Coursework in geography, which includes Geographic Information Systems (GIS), prepares students for a wide range of jobs that employ computers to gather, manipulate, analyze and report spatial data. There is rapid growth in the use of GIS in natural resource management, urban planning, marketing, real estate, criminology, emergency services, public health, scientific research and many other areas. GIS courses are also useful for transfer students in geography and other environmental and natural science-oriented disciplines.

GIS is an important tool for many other disciplines which use maps and spatially referenced data.

Program Student Learning Outcomes
1. Describe and assess Earth’s physical processes and their impacts on human culture and activities.
2. Describe and assess human cultural and economic activities and their impacts on Earth’s physical environment.
3. Identify and implement the methods and technologies used in geographic spatial analysis (ex. GIS, remote sensing, spatial statistics, cartography and map analysis).

Career Opportunities
Geographers are trained for a wide variety of exciting careers, including cartography, climatology, demography, ecology, education earth and environmental science, land use planning, meteorology, realty, and regional and urban planning. Jobs include positions as field analysts, foreign area and intelligence analysts, Geographic Information System analysts, map librarians, marketing analysts, park rangers, research analysts, resource economists, surveyors, teachers, transportation analysts, and travel agents.

Trained geographers are involved in a diverse set of research areas including agriculture, atmospheric and oceanic studies, landforms and soils, vegetation, water resources, marketing, political and economic structures, and transportation and urban systems.

Faculty and Offices
Michael Robinson, Chair (EBS-113, ext. 3741)
Geordie Armstrong (EBS-124)
Elizabeth Gans, Information/Assistance (EBS-114, ext. 2315)

AA Degree: Geography

Department Requirements (26 units)
GEOG 101+/ERTH 141+ — Physical Geography ..........3
GEOG 101L/ERTH 141L — Physical Geography Lab ......1
GEOG 102 — Human Geography...................................3
GEOG 104 — World Regional Geography .......................3
GEOG 152/ERTH 152 — Weather and Climate ............3
GEOG 171/ ERTH 171 — Introduction to GIS and Maps....2
GEOG 172/ ERTH 172 — GIS: Software Applications.......2
Controlled Electives (9 Units): ANTH 103, 121 122, 123, 124, 125, 126, BIOL 122+ or 144 or BOT 121, BIOL 124, ERTH 111+ or 111H+, 112+ or 115+ or ENVS 115+, ERTH 113 or 114, 116+ or ENVS 116+, ERTH 131 or 132 or 133, 151+, GEOG 105 or ERTH 142, GEOG 106, 175 or ERTH 175, ENVS 110+, GLST 101, 102, MATH 117 or 117H.
+Satisfies Area A of the SBCC General Education Requirements if both lecture and lab are completed.

Note: A course may not be used to satisfy more than one requirement (double-counting is not allowed).

Recommendation: Associate Degree students should take a broad background of electives in both the Earth Sciences and Social Sciences.

Requirements for AA-T Degree—

Geography for Transfer

The Geography Program at Santa Barbara City College provides a liberal education and prepares one for positions in business, government, environmental consulting, resource management, service in foreign areas and teaching. Many geography courses satisfy General Education requirements and appeal to the major and non-major alike. Coursework in geography, which includes Geographic Information Systems (GIS), prepares students for a wide range of jobs that employ computers to gather, manipulate, analyze and report spatial data. There is rapid growth in the use of GIS in natural resource management, urban planning, marketing, real estate, criminology, emergency services, public health, scientific research and many other areas.

The Associate in Arts degree in Geography for Transfer will provide the foundational knowledge in Geography to students who want to earn a Baccalaureate Degree in Geography at any of the CSU campuses.

Department Requirements

Complete 60 CSU-transferable units including general education, major requirements and CSU-transferable electives as follows:

I. General Education

Complete one of the following patterns:
- Intersegmental General Education Transfer Curriculum “IGETC” for CSU (38 semester units)
- California State University General Education Breadth pattern (40 semester units)

II. Major

Complete 19-24.5 units as outlined below with a “C” or better in each course. Pass/No Pass grading is not permitted in a course within a student’s major area of study. The courses completed for the major may also be used to fulfill General Education areas on the IGETC or the CSU GE Breadth.

Required Core Courses (7 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERTH 141* — Physical Geography or</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 101* — Physical Geography</td>
<td>3</td>
</tr>
<tr>
<td>ERTH 141L* — Physical Geography Laboratory or</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 101L — Physical Geography Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>GEOG 102* — Human Geography</td>
<td>3</td>
</tr>
</tbody>
</table>

List A. Select two courses from the following (6-7 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 104* — World Regional Geography</td>
<td>3</td>
</tr>
<tr>
<td>ERTH 171 — Introduction to GIS and Maps and</td>
<td>2</td>
</tr>
<tr>
<td>ERTH 172 — GIS: Software Applications or</td>
<td>2</td>
</tr>
<tr>
<td>GEOG 171 — Introduction to GIS and Maps and</td>
<td>2</td>
</tr>
<tr>
<td>GEOG 172 — GIS Software Applications*</td>
<td>2</td>
</tr>
<tr>
<td>ERTH 152* — Weather and Climate or</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 152* — Weather and Climate</td>
<td>3</td>
</tr>
</tbody>
</table>

List B. Select two courses from the following (6-10.5 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ANTH 101* — Physical Anthropology or</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 101H — Physical Anthropology, Honors</td>
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<tr>
<td>ANTH 102*— Introduction to Archaeology or</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 102H — Introduction to Archaeology, Honors</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 103* — Introduction to Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 100* — Concepts of Biology or</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 140* — Principles of Biology and</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 141* — Biology Laboratory</td>
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<tr>
<td>BIOL 101* — Plant Biology</td>
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</tr>
<tr>
<td>BIOL 102* — Animal Biology</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 103* — Cell Biology</td>
<td>5.5</td>
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<tr>
<td>BOT 121* — Plant Diversity</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 101* — Introductory Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 155* — General Chemistry I</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 156* — General Chemistry II</td>
<td>5</td>
</tr>
<tr>
<td>COMM 235* — Argumentation and Debate</td>
<td>3</td>
</tr>
<tr>
<td>CS 105 — Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>CS 106 — Theory and Practice II</td>
<td>3</td>
</tr>
</tbody>
</table>
CS 140 — Object-Oriented Programming, Using C++ ................................. 3
ECON 101* — Microeconomics ......................................................... 3
ECON 102* — Macroeconomics ......................................................... 3
EH 102 — Soils and Plant Nutrients .................................................... 3
ENG 111* — Critical Think. & Comp through Lit or ....... 3
ENG 111H* — Crit. Thk. & Comp Thru Lit, Honors. 3
ENVS 110* — Humans and the Biological Environment ....................... 3
ENVS 115* — Environmental Geology or .............................. 3
ERTH 115* — Environmental Geology ............................................. 3
ERTH 111* — Dynamic Earth-Physical Geology or .. 3
ERTH 111H* — Dynamic Earth-Physical Geology, Honors ................ 4
ERTH 114* — The Geology of California ........................................... 3
ERTH 126* — Petrology and Rock-Forming Minerals .. 5
ERTH 142* — Economic Geography or ........................................... 3
GEOG 105* — Economic Geography .............................................. 3
ERTH 151* — Introductory Physical Oceanography ................................ 3
ERTH 175 — Raster GIS Applications or ........................................ 2
GEOG 175 — Raster GIS Applications .............................................. 2
MATH 130* — Calculus for Biol. Sci, Social Science and BUS I ......................................................... 5
MATH 131* — Calculus for Biol. Sci, Social Science and BUS II .................. 5
MATH 137* — Precalculus I, College Algebra and Functions .......................................................... 5
MATH 138* — Precalculus II, College Algebra and Trigonometry .......................................................... 4
MATH 150* — Calculus with Analytic Geometry .............................. 5
PHIL 111* — Critical Thinking and Writing in Philosophy .......................................................... 3
PHYS 102* — Introductory Physics for Science Majors .......................................................... 4
PHYS 105* — General Physics or..................................................... 4
PHYS 110* — Introductory Physics ..................................................... 4
PHYS 106* — General Physics .......................................................... 4
POLS 101*— American Government and Politics .. 3
POLS 121* — International Politics .................................................. 3
PSY 150* — Statistics for Behavioral Science or .......................... 4
MATH 117* — Elementary Statistics or ......................................... 4
MATH 117H* — Elementary Statistics, Honors ................... 4
ZOOL 122*— Animal Diversity .......................................................... 3

*These courses fulfill an IGETC and/or CSU GE Breadth pattern requirement. Visit www.assist.org or http://articulation.sbcc.edu for a complete list of IGETC and CSU GE Breadth requirements.

Spanish 101*, 102*, 103*, 104*, 146*, 147*, 132*, 133*, 134*, 150*, 160*

Theatre Arts 103*, 107*, 108*

*These courses fulfill an IGETC and/or a CSU GE Breadth pattern requirement. Visit www.assist.org or http://articulation.sbcc.edu for a completed list of IGETC and CSU GE Breadth requirements.

College Requirements
For complete information, see “Graduation Requirements” in the Catalog Index.

Planning a Program of Study
In order to plan the best possible program of study to meet individual needs, students are encouraged to contact the Geography Department chairperson, faculty adviser, or counselor assigned to the Sciences Division. These persons are eager to assist students—and they welcome the opportunity to be helpful.

Preparation for Transfer
Course requirements for transfer vary depending upon the college or university a student wishes to attend. Therefore, it is most important for a student to consult with his/her counselor and departmental adviser before planning an academic program for transfer. Information sheets for majors, outlining transfer requirements, are available in the Counseling/Transfer Centers.

Honors and Awards
The Geography faculty selects one student each year to be honored as "Outstanding Geography Student." Students are nominated by members of the faculty and selections are made on the basis of academic scholarship and a student’s contribution to our community’s understanding of geographic events.
Special Programs and Courses

Geography Club
Students who are interested in exploring geography with their peers are invited to join the Geography Club. See Dr. Robinson or Ms. Armstrong for further information.

Advising
Our faculty is eager to provide counseling to students seeking to explore career opportunities which relate to Geography as a major or who simply need further information about any of our course offerings.

Student Participation
We invite student input at any time about needed changes in curriculum or additions to our program. Our course offerings are constantly under review and we welcome student perspective.

Geography Courses

GEOG 101/ERTH 141 — Physical Geography
(3) — CSU, UC
Skills Advisories: MATH 1 and ENG 103
Course Advisories: Concurrent enrollment in ERTH 141L/GEOG 101L
Hours: 54 lecture
Spatial study of Earth’s dynamic physical systems and processes. Interrelationships between the basic elements of the physical and human environments are examined, including geology (plate tectonics; volcanoes and earthquakes), geomorphology (formation and modification of landforms; river, coastal, and glacial processes), meteorology (Earth’s atmosphere; weather and climate), and hydrology (water on Earth).

GEOG 101L/ERTH 141L — Physical Geography Laboratory
(1) — CSU, UC
Corequisites: GEOG 101/ERTH 141
Skills Advisories: MATH 1 and ENG 103
Hours: 54 lab
Laboratory approach to a combination of earth science disciplines, including cartography, geology, geomorphology, meteorology and oceanography. Remote sensing techniques are utilized in 75% of laboratory activities.

GEOG 102 — Human Geography
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Interpretation of the cultural elements of the geographic landscape and the study of human’s changing relationship with the environment. Investigates culture and human processes as seen in global patterns of population and migration patterns, language, religion, political and economic systems, urbanization, and human impact on the physical world.

GEOG 104 — World Regional Geography
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 103
Hours: 54 lecture
Global survey of cultural regions, people and environments. Geographic methodologies are employed to evaluate people, resources, landscapes, livelihoods and economies across eight major geographic regions. The gap between developed and undeveloped economies, the global roles and interconnections of countries and regions, and the conflicting pressures between cultural diversity and globalization are analyzed.

GEOG 105/ERTH 142 — Economic Geography
(3) — CSU, UC
Skills Advisories: MATH 1 and ENG 103
Hours: 54 lecture
Designed for students majoring in Geography. Addresses regional patterns of principal economic activities of the world, with an emphasis on economic development and the problems of urbanization, transportation and the environment.

GEOG 106 — Geography of California
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Non-technical survey of the wide variety of natural and human environments found in California. It includes a regional study of physical landscapes, economic activities, characteristics of population, cities and rural areas, and current environmental problems. California’s interaction with other parts of the U.S. and world is also covered.
GEOG 152/ERTH 152 — Weather and Climate
(3) — CSU, UC
Course Advisories: Concurrent enrollment in ERTH 152L/GEOG 152L
Skills Advisories: MATH 1 and ENG 103
Hours: 54 lecture
Fundamentals of meteorology, including the nature of the atmosphere, solar radiation and energy balances, circulation of the atmosphere, air masses and fronts, atmospheric moisture, clouds and fog, precipitation, cyclones, weather analysis and forecasting, climate and climate change.

GEOG 152L/ERTH 152L — Weather and Climate Laboratory
(1) — CSU, UC
Corequisites: GEOG 152/ERTH 152
Skills Advisories: Eligibility for ENG 103 and proficiency in MATH 95
Hours: 54 lab
Laboratory approach to topics covered in the Weather and Climate lecture (ERTH 152/GEOG 152). Exercises introduce fundamentals of meteorology, including the nature of the atmosphere, circulation of the atmosphere, air temperature and humidity, and weather analysis and forecasting. Students collect and analyze a variety of environmental data.

GEOG 171/ERTH 171 — Introduction to Geographic Information Systems and Maps
(2) — CSU, UC
Corequisites: GEOG 172/ERTH 172
Skills Advisories: MATH 4 and ENG 103
Hours: 36 lecture
Techniques, tools and theories used to examine geographic information. Includes the structure, uses, and basic operations of a Geographic Information System (GIS). Cartography and cartographic design are incorporated, as well as overviews of aerial photography, remote sensing, and global positioning systems. Includes uses of GIS software in business, urban planning, resource management and scientific research.

GEOG 172/ERTH 172 — Geographic Information Systems: Software Applications
(2) — CSU, UC
Corequisites: ERTH 171/GEOG 171 (taken concurrently)
Skills Advisories: ENG 103
Hours: 54 (27 lecture, 27 lab)
Extensive practice with a GIS package, accompanied by exploration of the range of applications in which GIS is used (e.g., resource management, public works, business, planning, scientific research). Covers the key skills for operating GIS software packages, including geographical data acquisition, creation, management, analysis and output.

GEOG 175/ERTH 175 — Raster GIS Applications
(2) — CSU
Prerequisites: ERTH 172 or GEOG 172 with a minimum grade of “C”
Skills Advisories: Eligibility for ENG 103; MATH 4
Hours: 36 lecture
Hands-on introduction to basic Raster concepts, using ArcGIS Spatial Analyst extension within the Arc Map environment. The underlying methodology required to solve real world problems is explored through a series of extensive course projects. Key skills in data acquisition, surface creation techniques, map algebra, database design and results reporting are covered.

GEOG 299 — Independent Study in Geography
(1-3) — CSU
Limitation on Enrollment: Six units of Geography with a 3.0 or above GPA; minimum 12 units of course work completed at SBCC with GPA of at least 2.5.
Hours: 48-144 lab
For complete information, see “Independent Study” in the Catalog Index. (*UC transfer limit: 299 computed as Independent Study; see counselor)
Graphic Design and Photography

Degree, Certificates and Awards
Associate in Arts in Graphic Design and Photography:
  Graphic Design Concentration
Certificate of Achievement in Graphic Design and Photography: Graphic Design Concentration
Certificate of Achievement in Introduction to Graphic Design
Skills Competency Award in Digital Visual Foundation
Skills Competency Award in Graphic Design
  Entrepreneur I
Skills Competency Award in Graphic Design
  Entrepreneur II
Skills Competency Award in Information Design

Program Description
The focus of the Graphic Design and Photography curriculum is to create a balance between design and technology. The program begins with a foundation in design, drawing and art appreciation and starts to integrate technology during the first semester. Design principles, creative thinking and problem-solving techniques, as they apply to the media arts, give the student a strong foundation for entry into the work force, and for advanced study at other colleges and universities. Students work in a state-of-the-art digital arts center for hands-on computer training.

Both graphic design and photography students create projects, using electronic media, typographic design, publication design, photojournalism, advertising illustration photography and color management.

Faculty and Offices
Linda Lowell, Chair, Photography (OE-184A, ext. 3571)
Jeff Hatfield, Lab Technician (ext. 2280)
David Kafer, Lab Technician (ext. 3069)
Alice Perez, Dean (A-118 ext. 2354)

Graphic Design Concentration
With strong foundation courses in design, typography and creative problem-solving, students create designs, from concept to printed piece. The understanding of production and pre-press processes are an integral part of the concentration, along with the introduction of web design and interactivity. The curriculum is based on the belief that the graphic designer is a visual and verbal communicator who is able to develop creative solutions for a variety of design and communication problems. Students execute their work in a state-of-the-art Digital Arts Center.

Graphic Design Certificate
The Graphic Design Certificate provides the student with a thorough understanding of the design process, from concept to printed piece. Concept development, creativity, interactivity and pre-press processes are introduced and become an integral part of the Certificate. Students execute their work in a state-of-the-art Digital Arts Center.

Program Student Learning Outcomes
Graphic Design
1. Apply design principles to both print and screen layouts.
2. Demonstrate proficiency using industry-standard software to produce graphic design layouts that are print-ready digital files.
3. Define professional terminology for the graphic design and print industry.
4. Demonstrate a sense of aesthetics for design and typography in the visual communication field.
5. Identify and apply their creative abilities to communicate ideas with confidence.
6. Demonstrate effective evaluation techniques, such as critiquing, to test and revise ideas and designs.
7. Develop professional quality design concepts and layouts.

Photography
1. Demonstrate fundamentals of 35mm traditional and digital camera operations.
2. Demonstrate skills in scanning, digital printing and archival printing technologies.
3. Demonstrate digital image editing and special manipulation effects.
4. Demonstrate composition and conceptual development.
5. Demonstrate acceptable photographic methods in studio photography.
6. Demonstrate advanced lighting techniques.
7. Demonstrate the ability to create a professional portfolio of work that projects lasting appeal and has high visual impact.
8. Demonstrate color management basics.

Career Opportunities
Assistant Graphic Designer
Freelance Graphic Designer
Information and Visualization Designer
Production Coordinator
Publications Designer

Advising
In addition to the college counselor at the Career Center, the Graphic Design program chairperson advises students who are planning a career in Graphic Design.

AA Degree in Graphic Design and Photography: Graphic Design Concentration

Department Requirements (33 units)

- GDP 110 — Media Design ........................................... 3
- GDP 111 — Graphic Design Basics ................................... 3
- GDP 112 — Digital Literacy for Media Artists and Designers ........................................... 3
- GDP 113 — Typography ............................................ 3
- GDP 114 — Graphic Design I ...................................... 3
- GDP 118 — Creative Thinking ....................................... 3
- GDP 212 — Graphic Design II ...................................... 3
- GDP 215 — Publication Design .................................... 3
- GDP 230 — Portfolio .................................................. 3
- PHOT 109 — Photo I .................................................. 3

Choose One

- MAT 121 — Computer Interface Design .................. 3
- MAT 131 — Digital Imaging I ..................................... 3
- MAT 153 — Web Design I .......................................... 3
- PHOT 180 — Digital Darkroom ................................... 3

Strongly Recommended

- ART 102A — Early Twentieth Century Art or ART 102B — Late Twentieth Century Art ............ 3
- ART 120 — Fundamentals of Drawing ...................... 3
- ART 140 — 2D Design: Composition and Color .......... 3
- GDP 290 — Work Experience in Graphic Design and Photography ........................................... 3

Recommended Course Sequence: First semester: GDP 110, 111 and 113; second semester GDP 114, 118 and MAT 131; third semester: GDP 212 or 215 and PHOT 109; fourth semester: GDP 212 or 215, 230 and MAT 132 or MAT 153 or PHOT 180 or PHOT 285.

Graduation Requirements:

(1) Complete all department requirements with a “C” or better or “P” in each course (at least 20% of the department requirements must be completed through SBCC); (2) Complete one of the following three General Education options: OPTION 1: SBCC General Education Requirements (Areas A-D) and Institutional Requirements (Area E) and Information Competency Requirement (Area F) OR OPTION 2: IGETC Pattern OR OPTION 3: CSU GE Breadth Pattern;
(3) Complete a total of 60 degree-applicable units (SBCC courses numbered 100 and higher);
(4) Maintain a cumulative GPA of 2.0 or better in all units attempted at SBCC; (5) Maintain a cumulative GPA of 2.0 or better in all college units attempted; and
(6) Complete 15 units through SBCC.

Certificate of Achievement in Graphic Design and Photography: Graphic Design Concentration

Department Requirements (33 units)

- GDP 110 — Media Design ........................................... 3
- GDP 111 — Graphic Design Basics ................................... 3
- GDP 112 — Digital Literacy for Media Artists and Designers ........................................... 3
- GDP 113 — Typography ............................................ 3
- GDP 114 — Graphic Design I ...................................... 3
- GDP 118 — Creative Thinking ....................................... 3
- GDP 212 — Graphic Design II ...................................... 3
- GDP 215 — Publication Design .................................... 3
- GDP 230 — Portfolio .................................................. 3
- PHOT 109 — Photo I .................................................. 3

Choose One

- MAT 121 — Computer Interface Design .................. 3
- MAT 131 — Digital Imaging I ..................................... 3
- MAT 153 — Web Design I .......................................... 3
- PHOT 180 — Digital Darkroom ................................... 3

Strongly Recommended

- ART 102A — Early Twentieth Century Art or ART 102B — Late Twentieth Century Art ............ 3
- ART 120 — Fundamentals of Drawing ...................... 3
- ART 102A — Early Twentieth Century Art or ART 102B — Late Twentieth Century Art ............ 3
- ART 140 — 2D Design: Composition and Color .......... 3
Students must complete all department requirements for the certificate with a cumulative GPA of 2.0 or better. Candidates for a Certificate of Achievement are required to complete at least 20% of the department requirements through SBCC.

**Graphic Design Course Sequencing**

To be successful, it is important to take courses in the correct sequence.

**Semester 1**
- GDP 110 — Media Design ........................................ 3
- GDP 111 — Graphic Design Basics ............................ 3
- GDP 113 — Typography .................................................. 3

**Semester 2**
- GDP 114 — Graphic Design I ........................................ 3
- GDP 118 — Creative Thinking ......................................... 3
- GDP 112 — Digital Literacy for Media Artists and Designers ........................................ 3

**Semester 3**
- PHOT 109 — Photo I .................................................. 3
- GDP 212 — Graphic Design II or .................................. 3
  - GDP 215 — Publication Design ..................................... 3

**Semester 4**
- GDP 212 — Graphic Design II or .................................. 3
  - GDP 215 — Publication Design ..................................... 3
- GDP 230 — Portfolio .................................................. 3

**Choose One**
- MAT 131 — Digital Imaging I ....................................... 3
- MAT 153 — Web Design I ........................................ 3
- MAT 132 — Digital Imaging II ....................................... 3
- PHOT 180 — Digital Darkroom ........................................ 3

**Certificate of Achievement: Introduction to Graphic Design**

**Department Requirements (16.5-18 units)**
- GDP 110 — Media Design ........................................ 3
- GDP 111 — Graphic Design Basics ............................ 3
- GDP 113 — Typography .................................................. 3
- GDP 114 — Graphic Design I ........................................ 3
- GDP 212 — Graphic Design II ........................................ 3

**Choose one of the following:**
- MAT 164 — Online and Mobile Marketing or .......... 3
  - MKT 164 — Online and Mobile Marketing ................. 3
- MAT 177 — Case Studies in Mobile Media ............... 1.5
- MAT 178 — Web Design for Mobile Devices ............ 1.5

*The following courses are strongly recommended:*
- ART 120 — Fundamentals of Drawing ........................... 3
- GDP 118 — Creative Thinking ......................................... 3
- GDP 215 — Publication Design ..................................... 3
- GDP 290 — Work Experience in Graphic Design and Photo ........................................ 3
- MAT 131 — Digital Imaging I ....................................... 3
- MAT 153 — Web Design I ........................................ 3
- MAT 205 — Portfolio Development and Pro. Practices 3
- PHOT 109 — Graphic Design II ..................................... 3

**Recommended Course Sequence:**
- first semester: GDP 110, 111; second semester GDP 113, 114; third semester: GDP 212; fourth semester: MAT 164/ GDP 164, 177, 178.

**Students must complete all department requirements for the certificate with a cumulative GPA of 2.0 or better.**

**Skills Competency Award: Graphic Design Entrepreneur I (18 units)**
- GDP 111 — Graphic Design Basics ............................ 3
- GDP 113 — Typography .................................................. 3
- GDP 114 — Graphic Design I ........................................ 3
- GDP 118 — Creative Thinking ......................................... 3
- ENT 202 — Entrepreneurship: Idea to Business Model ........................................ 3
- ENT 203 — Marketing Plan Development .................. 3

**Skills Competency Award: Graphic Design Entrepreneur II (18 units)**
- GDP 212 — Graphic Design II ........................................ 3
- GDP 215 — Publication Design ..................................... 3
- GDP 230 — Portfolio .................................................. 3
- MKT 164 — Online and Mobile Marketing or ............ 3
  - MAT 164 — Online and Mobile Marketing ................. 3
- MKT 203 — Marketing Communications .................... 3
- ENT 205 — Financial Management for Startups .......... 3
- ENT 208 — Business Plan Development .................... 3

**Skills Competency Award: Information Design (15 units)**
- GDP 110 — Media Design ........................................ 3
- GDP 112 — Digital Literacy Media Artists and Designers ........................................ 3
- GDP 115 — Information Visualization ......................... 3
- GDP 217 — Dynamic Information Visualization 3
- MAT 153 — Web Design I ........................................ 3
Skills Competency Award:  
Digital Visual Foundation (15 units)  
GDP 110 — Media Design ........................................ 3  
GDP 111 — Graphic Design Basics .......................... 3  
GDP 112 — Digital Literacy Media Artists & Designers 3  
MAT 112 — Digital Drawing .................................... 3  
MAT 131 — Digital Imaging I .................................. 3  

Students must complete the above courses with the grade of “C” or higher or pass in all courses. Candidates for a Skills Competency Award are required to complete at least 20% of the department requirements through SBCC.

Planning a Program of Study  
Those interested in the Graphic Design and Photography Program must be admitted to Santa Barbara City College. An application and one copy of high school and any other college transcripts must be submitted to the Admissions Office.  

All Graphic Design and Photography majors should make appointments with the counselor for Graphic Design and Photography. Contact the Counseling Center at (805) 965-0581, ext. 2285. Initial program development will take place during the counseling session.  

The Career Center is utilized by the Graphic Design and Photography Department to provide extensive individual help for students needing to find part-time jobs and internships related to their learning discipline.

Preparation for Transfer  
Course requirements for transfer vary depending upon the college or university a student wishes to attend. Therefore, it is most important for a student to consult with his/her counselor and departmental adviser before planning an academic program for transfer. Information sheets for majors, outlining transfer requirements, are available in the Transfer Center.

Program Cost and Outcome  
For planning purposes, the webpages below provide information on the cost of attendance, program length (assuming a student attends full-time), financing options and historical student completion rates:

Graphic Design and Photography:  
Graphic Design Concentration  
www.sbcc.edu/financialaid/gainfulemployment/Graphic%20Design%20Concentration.htm

Graphic Design Courses

GDP 110 — Media Design  
(3) — CSU  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 90 (36 lecture, 54 lab)  
Recommended starting point for students interested in careers in media arts. Introductory course in design and composition as it relates to the digital arena. Students learn basic design principles and apply them to 2D designs created using digital tools within various software programs.

GDP 111 — Graphic Design Basics  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 90 (36 lecture, 54 lab)  
Recommended starting point for those planning a career in graphic design. Students are introduced to the latest software to create basic page layouts. Topics include overview of the commercial print industry, image preparation, basic layout design and typography principles, color modes and file preparation for print. Student assignments encompass both design and technical skills.

GDP 112 — Digital Literacy for Media Artists and Designers  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 90 (36 lecture, 54 lab)  
Introduction to theory, history and practice of interaction design, visualization and software art through current software and introductory programming languages.

GDP 113 — Typography  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 90 (36 lecture, 54 lab)  
Introduces a basic understanding of the effective use of type. Emphasis is on the use of typography in graphic design. Topics include the history of type, aesthetic qualities of letterforms, anatomy of the letter, typefaces, and style and compositional arrangement.
GDP 114 — Graphic Design I  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 98 and 103  
Course Advisories: GDP 110 and 111  
Hours: 90 (36 lecture, 54 lab)  
Students learn and apply the basic principles of design and visual communication to a variety of print-related projects. Students participate in critiques, which emphasize the objective and subjective qualities of their work. The design process, concept and content are stressed, using industry-standard software in a state-of-the-art computer lab.

GDP 115 — Information Visualization  
(3) — CSU  
Prerequisite: GDP 112  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 90 (36 lecture, 54 lab)  
Introduction to the expanding field of infographics and visualization. Students gain an understanding of this field and demonstrate how to visualize and present data in clear and meaningful ways. Explorations include data display methods and technologies, graphical model choices, and industries in which data visualizations are utilized.

GDP 118 — Creative Thinking  
(3) — CSU  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 54 lecture  
Designed to give students basic concepts to enhance their innate creative abilities. Numerous creative problem-solving techniques and ideas are explored. The underlying assumption is that innovation is a skill which can be learned.

GDP 214 — Graphic Design II  
(3) — CSU  
Skills Advisories: Eligibility for ENG 98 and 103; MATH 1  
Course Advisories: GPD 114  
Hours: 90 (36 lecture, 54 lab)  
Advanced studies and projects in graphic design and advertising. Students explore the creative process in developing ads and promotions for print and other media. Emphasis is on concepts, content and design.

GDP 215 — Publication Design  
(3) — CSU  
Skills Advisories: Eligibility for ENG 98 and 103  
Course Advisories: GDP 111 and 114  
Hours: 90 (36 lecture, 54 lab)  
Advanced study in design and production for multi-page, print and digital publications. Topics include paper choices, pagination, preflight issues, proofing, output options and publications for web devices. Students design and produce multi-page booklets and publications for mobile devices to be used as portfolio pieces.

GDP 217 — Dynamic Information Visualization  
(3) — CSU  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 90 (36 lecture, 54 lab)  
Continuation of visualization practices towards user interactivity for web, mobile, and other media choices. Areas explored include dynamic and large data sets, embedded sensors and the internet of things.

GDP 230 — Portfolio  
(3) — CSU  
Skills Advisories: Eligibility for ENG 110 or 110H  
Course Advisories: GDP 212 or 215  
Hours: 90 (36 lecture, 54 lab)  
Guides students in developing and refining a body of work that constitutes a portfolio reflecting individual creative and visual communication skills. Assignments include improving current pieces, developing new pieces, presenting students’ work and themselves to prospective employers in a compelling way. Portfolios are essential in transitioning to other institutions or the professional world.

GDP 290 — Work Experience in Graphic Design and Photography  
(1-4) — CSU  
Skills Advisories: Eligibility for ENG 98 and 103  
Course Advisories: PHOT 109 or GDP 114  
Limitation on Enrollment: Must be enrolled in any GDP course.  
Hours: 60-300  
Supervised employment for students whose career objectives, course of study and employment complement each other. Student to carry out assigned duties as an employee; follow employer’s policies, rules and regulations; write learning objectives; keep a record of time worked; fill out student data card; and secure employer’s evaluation at the end of the semester.
Photography

Degree, Certificate and Awards

Associate in Arts: Applied Photography
Certificate of Achievement: Applied Photography
Skills Competency Award: Photo Design
Skills Competency Award: Photo Design II
Skills Competency Award: Advanced Photo Design

Program Description

The Photography curriculum is carefully designed to build fundamental technical skills in the operation of 35mm DSLR (digital single lens reflex) cameras, as well as some medium- and large-format cameras. In addition, all classes emphasize the importance of creativity and build conceptual development skills through a progressive series of thought-provoking assignments. Basics to Advanced skills in digital post-production (color management, editing and printing technologies) are provided from entry-level classes through the entire curriculum, as all darkroom facilities at SBCC are completely digital. Our photography classrooms and color lab are equipped with state-of-the-art, professional-level computers, scanners and small- and large-format archival printers capable of printing up to 44” x 96”.

Career Opportunities

Photographic Assistant
Advertising/Commercial Assistant
Portrait Photographer
Fine Art Photography
Photojournalism/Documentary
Newspaper/Magazine/e-zine Photographer
Wedding/Event Photographer
Post-Production Specialist
Color Management Specialist
Restoration Specialist
Photographic Studio Manager

Other areas of specialization include:
Automotive, Architecture, Food, Fashion, Travel, Nature and Celebrity

AA Degree and Certificate of Achievement – Applied Photography

Department Requirements (30 units)

PHOT 109 — Photo I ........................................... 3
PHOT 180 — Digital Darkroom ............................. 3
PHOT 190 — Photojournalism or......................... 3
   JOUR 190 — Photojournalism ............................ 3
PHOT 209 — Photo II ........................................ 3
PHOT 250 — Fine Art Photography ........................ 3
PHOT 280 — Advanced Lighting Systems ............... 3
PHOT 285 — Color Management ........................... 3
PHOT 260 — Portfolio ......................................... 3

Course Electives: Choose 6 units:
PHOT 120 — Creative Applications I ....................... 1.5
PHOT 125 — Creative Applications II ..................... 1.5
PHOT 130 — Digital Assets Management ................. 1
PHOT 135 — Wedding and Event Photography .......... 1
PHOT 140 — Travel and Street Photography ............. 1
PHOT 145 — Fine Art Copy Work .......................... 1
PHOT 146 — Children and Pet Photography .............. 1
PHOT 147 — Sports Photography .......................... 1
PHOT 150 — Stock Photography ............................ 1
PHOT 151 — Stock Photography II ........................ 1
PHOT 214 — Advertising Illustration .............................. 3
PHOT 281 — Digital Darkroom II .......................... 3

AA Degree Applied Photography

Graduation Requirements

(1) Complete all department requirements with a “C” or better or “P” in each course (at least 20% of the department requirements must be completed through SBCC); (2) Complete at least 18 units of General Education Requirements (Areas A-D of the SBCC General Education pattern); (3) Complete the SBCC Institutional Requirements (Area E); (4) Complete the Information Competency Requirement (Area F); (5) Complete a total of 60 degree-applicable units (SBCC courses numbered 100 and higher); (6) Maintain a cumulative GPA of 2.0 or better in all units attempted at SBCC; (7) Maintain a cumulative GPA of 2.0 or better in all college units attempted; and (8) Complete 15 units through SBCC.

Certificate Applied Photography Requirements

Complete all department course requirements with a “C” or better or “P” in each course. Candidates for a
Certificate of Achievement are required to complete at least 20% of the department requirements through SBCC.

**Photography Courses — Recommended Sequencing**
To be successful, it is important to take courses in the correct sequence.

**Semester 1**
- PHOT 109 — Photo I .................................................. 3
- PHOT 190 — Photojournalism or JOUR 190 — Photojournalism ..................................... 3

**Semester 2**
- PHOT 180 — Digital Darkroom .................................. 3
- PHOT 209 — Photo II .................................................. 3
- PHOT 250 — Fine Art Photography ............................ 3

**Semester 3**
- PHOT 280 — Advanced Lighting Systems ..................... 3
- PHOT 281 — Digital Darkroom II ............................... 3

**Semester 4**
- PHOT 214 — Advertising Illustration .......................... 3
- PHOT 260 — Portfolio .................................................. 3
- PHOT 285 — Color Management ................................. 3

**Skills Competency Award: Photo Design**

**Department Requirements (15 units)**
- GDP 215 — Publication Design .................................. 3
- PHOT 209 — Photo II .................................................. 3
- PHOT 214 — Advertising Illustration ............................. 3
- PHOT 250 — Fine Art Photography ............................... 3
- PHOT 281 — Digital Darkroom II ............................... 3

Students must complete the above courses with a grade of “C” or higher or credit in all courses.

**Skills Competency Award: Advanced Photo Design**

**Department Requirements (12 units)**
- GDP 212 — Graphic Design II .................................. 3
- GDP 230 — Portfolio .................................................. 3
- PHOT 280 — Advanced Lighting Systems ..................... 3
- PHOT 285 — Color Management ................................. 3

Students must complete the above courses with the grade of “C” or higher or pass in all courses. Candidates for a Skills Competency Award are required to complete at least 20% of the department requirements through SBCC.

**Program Cost and Outcome**
For planning purposes, the webpage below provides information on the cost of attendance, program length (assuming a student attends full time), financing options and historical student completion rates:
www.sbcc.edu/financialaid/gainfulemployment/Photography-Applied.htm

**Photography Courses**

**PHOT 109 — Photo I**
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 90 (36 lecture, 54 lab)
Fundamentals of the camera: techniques of camera operation; characteristics of film and photo paper; basic digital imaging; student assignments; photo composition and lighting; print finishing techniques; computer enhancement techniques; film, slide and print scanning for digital photography.
PHOT 120 — Creative Applications I
(1.5) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Course Advisories: PHOT 109 with a minimum grade of “C”
Hours: 45 (18 lecture, 27 lab)
Students learn the fundamentals of alternative photographic processes based on works of art. Assignments include creating digital negatives, contact printing, and transfer techniques to metal, wood and fabrics.

PHOT 125 — Creative Applications II
(1.5) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Course Advisories: PHOT 109
Hours: 45 (18 lecture, 27 lab)
Students learn to apply historic, alternative photographic processes to create one-of-a-kind art through modern technologies. Printing supported up to 44” wide, coupling archival inks with traditional art substrates like wood, fabric, metal and cold press papers. Students will create 2- and 3-dimensional sculptural pieces of photographic art.

PHOT 130 — Digital Assets Management
(1) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Course Advisories: PHOT 109
Hours: 18 lecture
Explains both the purpose of digital asset management systems and why you need one. Step-by-step workflow, software, and ‘best practices’ in managing your digital content. Recommended for photographers, graphic designers, photojournalists, journalists and other creative people involved with image generation and storage.

PHOT 135 — Wedding and Event Photography
(1) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Course Advisories: PHOT 109
Hours: 18 lecture
Covers the basics of starting a wedding/event photography business. Posing and lighting set-ups; planning the sessions and packages; common shots; basic equipment and backups; wedding photojournalism; contracts; ethics delivery options.

PHOT 140 — Travel and Street Photography
(1) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Course Advisories: PHOT 109
Hours: 18 lecture
Covers the fundamentals of travel and street photography to capture stunning images. Includes basic composition, quality of light, exposure variables and workflow suggestions. Designed for beginning-to-intermediate photographers who understand the basic operation of their own camera. Assignments include how to improve landscapes, cityscapes, and appreciate ethical standards when taking photos.

PHOT 145 — Fine Art Copy Work
(1) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Course Advisories: PHOT 109
Hours: 18 lecture
Learn museum-quality standards for copying art. Identifies recommended lighting equipment and demonstrates lighting techniques for small and larger-scale art. Bring your own art work and discover the best techniques for copying your work using our studio lighting equipment. Learn the basics for setting up a copy art station in your own home.

PHOT 146 — Children and Pet Photography
(1) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Course Advisories: PHOT 109
Hours: 18 lecture
Portraiture relies on standardized lighting techniques coupled with the ability to elicit complimentary expressions and posing. Learn tricks and tips for working with children and pets in the studio and environment. Provides recommendations on home lighting kits, posing suggestions and the ‘tricks’ of the trade for working with little people and pets.

PHOT 147 — Sports Photography
(1) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Course Advisories: PHOT 109
Hours: 18 lecture
Shows you how to capture the key elements of sports photography: motion and emotion, style and scene, place and purpose, covering a wide variety of sports.
PHOT 150 — Stock Photography
(1) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Course Advisories: PHOT 109
Hours: 18 lecture
Students study the stock photography market, learn what kind of images work well in stock photography while investigating how this field has grown and will change in the future. Contracts, image protection and Digital Rights Management (DRM) are also covered.

PHOT 151 — Stock Photography II
(1) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Course Advisories: PHOT 109
Hours: 18 lecture
Students research and respond to the latest trends in image making. By the end of the class, students are expected to have images in a stock agency and be able to run a customized stock photography business.

PHOT 180 — Digital Darkroom
(3) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Course Advisories: PHOT 109 and MAT 131
Hours: 90 (36 lecture, 54 lab)
Fundamentals of digital printing technologies in RGB: creating master archive files for print/web applications; drum scanning negatives, transparencies (slides) and flat art; simulating traditional alternative process; digital infrared and special effects; contrast and curve control; optimum sharpening methods; digital retouching and masking methods; digital painting techniques; and large format archival printing. Basic knowledge of Adobe Photoshop beneficial. Emphasis on creating a digital portfolio through a series of conceptual assignments.

PHOT 209 — Photo II
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 98 and 103
Course Advisories: PHOT 109
Hours: 90 (36 lecture, 54 lab)
Exploration of photographic composition; digitizing; scanning negatives, slides and prints; studio lighting; categories of cameras; use of high contrast; special-effect photographs; various scanning and printing techniques; advanced assignments in digital photography; and group projects. Emphasis on environmental and studio lighting.

PHOT 214 — Advertising Illustration
(3) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Course Advisories: PHOT 109 or 209
Hours: 90 (36 lecture, 54 lab)
Creating solutions for advertising. Emphasis on ad concept packages for print and TV spot production. Students analyze latest trends in advertising. Assignments include fashion, editorial, lifestyle, small product and fine art applications.

PHOT 250 — Fine Art Photography
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 98 and 103
Course Advisories: PHOT 109
Hours: 90 (36 lecture, 54 lab)
Exploration of classic and contemporary styles of fine art. Students translate their own personal vision by responding to the major art movements with their camera.

PHOT 260 — Portfolio
(3) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Course Advisories: PHOT 109 and 180
Hours: 90 (36 lecture, 54 lab)
Students produce a professional portfolio based on the style and passion of their own vision. Students learn communication, business, design and presentation skills to best present their work.
PHOT 280 — Advanced Lighting Systems  
(3) — CSU  
Skills Advisories: Eligibility for ENG 98 and 103  
Course Advisories: PHOT 109 and 209  
Hours: 90 (36 lecture, 54 lab)  
Designed to take Photo, Video and Multimedia students beyond basic lighting techniques. Lighting systems include studio, portable electronic strobes and continuous light sources. Location and set lighting covered, with emphasis on establishing mood and matching existing light conditions. Topics include lighting people, building interiors and exteriors, small product and large set lighting.

PHOT 281 — Digital Darkroom II  
(3) — CSU  
Skills Advisories: Eligibility for ENG 98 and 103  
Course Advisories: PHOT 180  
Hours: 90 (36 lecture, 54 lab)  
Advanced techniques for color management, enhancements, and archival digital printing technologies in RGB. Timeline editing for video and natural media techniques. Emphasis on creating a digital portfolio through a series of conceptual assignments to expand the student’s creativity.

PHOT 285 — Color Management  
(3) — CSU  
Skills Advisories: Eligibility for ENG 98 and 103  
Course Advisories: PHOT 109, 180  
Hours: 90 (36 lecture, 54 lab)  
Fundamentals of color management for CMYK and RGB output. Professional calibration methods for scanners, printers, color monitors and digital capture systems. For graphic artists and photographers who are looking for more advanced techniques in color correction, ICC profile systems, workflow automation, and multiple-device matching for optimal reproduction quality.
Health Information Technology and Cancer Information

Degrees and Certificates
Associate in Science: Health Information Technology
Associate in Science: Cancer Information Management
Certificate of Achievement: Medical Coding Specialist
Certificate of Achievement: Cancer Information Management

Program Description
Opportunities in the health information field have expanded with changes in health care delivery, utilization and reimbursement and with developments in information technology. The Health Information Technology and Cancer Information Management Department offers four exciting options to prepare for a health information career: (1) the Associate in Science in Health Information Technology; (2) the Associate in Science in Cancer Information Management; (3) the Certificate of Achievement in Cancer Information Management; and (4) the Certificate of Achievement in Medical Coding Specialist. These programs are all offered completely online.

Students must have access to the Internet to enroll in these programs and must complete online orientation activities as the first assignment of each course. Students must meet online technical requirements. Core elements of each online lecture course include successful completion of the course objectives using the Internet, textbooks, study materials and computer applications. Examinations are online. Professional directed practice, under the guidance of a clinical preceptor, is provided at facilities as close as possible to each student’s residence.

Health Information Technology
The Health Information Technology (HIT) Program prepares students for a career that places them where the expanding arena of healthcare meets the cutting edge of technology. HIT professionals are the experts on patient data that doctors, nurses and other providers rely on to perform their jobs and which consumers need to manage their own healthcare. By maintaining, collecting, analyzing and securing health information, their work makes an important contribution to the delivery of quality care.

Graduates of the program are granted the Associate in Science Degree in Health Information Technology. The program is accredited by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM). Graduates are eligible to take the national credentialing exam to become a Registered Health Information Technician (RHIT). CAHIIM is located at 233 N. Michigan Avenue, 21st Floor, Chicago, IL 60601-5800 or www.cahiim.org or e-mail info@cahiim.org.

Cancer Information Management
The Cancer Information Management (CIM) Program prepares students for positions with hospital-based and population-based cancer registries. Responsibilities typically include identification of reportable cancer cases; abstraction of pertinent cancer data from patient records and pathology, radiology and surgical reports; coding and staging primary site, histology and extent of disease; monitoring completeness, timeliness and quality of cancer data; performing cancer patient follow-up activities to identify second primaries, recurrence and spread of disease; reporting cancer data to health care officials, hospital administrators, physicians and regulatory organizations for use in cancer prevention and control; assisting the medical staff and epidemiologists in special studies and research; and supervising staff.

Graduates of this program who earn the Associate in Science Degree in Cancer Information Management are eligible to take the national credentialing exam to become a Certified Tumor Registrar (CTR). Graduates who earn the Certificate of Achievement in Cancer Information Management and who have an Associate Degree or higher in any field are also eligible to the CTR exam. The program is accredited by the National Cancer Registrars Association (NCRA). NCRA is located at 1330 Braddock Place, Suite 520, Alexandria, VA 22314; www.ncra-usa.org.

Medical Coding Specialist
This completely online certificate program prepares students for a position as a medical coder in an acute care hospital, clinic or physician’s office, long-term care facility, and other health care settings. Coders ensure that valid codes are applied to medical diagnoses and
procedures per coding classification guidelines and to facilitate reimbursement, analyze patient outcomes, and medical research.

The Medical Coding Specialist Certificate of Achievement prepares students to take the national certification examination to become a Certified Coding Associate (CCA) offered by AHIMA. This program is approved by the American Health Information Management Association (AHIMA). AHIMA is located at 233 N. Michigan Avenue, 21st Floor, Chicago, IL 60601-5809 or at (312) 233-1100; www.ahima.org.

Program Student Learning Outcomes
1. Apply biomedical knowledge to the process of clinical code assignment.
2. Analyze and communicate clinical and statistical data to improve patient care and facilitate financial planning.
3. Apply and demonstrate legal, ethical, accreditation and certification standards to health information.
4. Participate in planning and implementing clinical and administrative information systems in traditional and alternative healthcare settings.
5. Apply departmental and organizational standards to data storage, retrieval, retention and security.
6. Demonstrate the ability to work effectively as an individual and collaboratively in a group to resolve health information management challenges in a changing healthcare environment.

Department Offices

Health Information Technology and Cancer Information Management Programs (hitcim@sbcc.edu, ext. 3451)

Health Technologies Counselors (hitcimadvising@sbcc.edu, ext. 2285)

Alan Price, Dean (A-218, ext. 3044)

Faculty/Staff

Denise Harrison, BS, CTR, Chair and Program Director, Cancer Information Management (dcharrison1@sbcc.edu)

Janet Robertson, RHIA, Program Director, Health Information Technology (robertso@sbcc.edu)

Lynette Williamson, MBA, RHIA, CCS, CPC, FAHIMA Program Director, Medical Coding Specialist (lmwilliamson@sbcc.edu)

Shawna Sweeney, MSHI, RHIA, CCS, Faculty

AS Degree: Health Information Technology

Department Requirements (48 units)

Recommended sequence of courses, offered online:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP 101</td>
<td>Introduction to Computer Applications</td>
<td>4</td>
</tr>
<tr>
<td>HIT 135</td>
<td>Basic Medical Terminology</td>
<td>3</td>
</tr>
<tr>
<td>BMS 146</td>
<td>Human Form and Function</td>
<td>3</td>
</tr>
<tr>
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</tr>
<tr>
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</tr>
<tr>
<td>HIT 204</td>
<td>Basic Pathophysiology</td>
<td>3</td>
</tr>
<tr>
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<td>Pharmacology for Allied Health</td>
<td>2</td>
</tr>
<tr>
<td>HIT 202</td>
<td>ICD, Diagnostic Coding</td>
<td>2</td>
</tr>
<tr>
<td>HIT 203</td>
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<td>3</td>
</tr>
<tr>
<td>HIT 210</td>
<td>CPT Procedural Coding</td>
<td>3</td>
</tr>
<tr>
<td>HIT 255+</td>
<td>Medical Insurance and Reimbursement</td>
<td>4</td>
</tr>
<tr>
<td>HIT 220</td>
<td>Health Information Management Statistics</td>
<td>2</td>
</tr>
<tr>
<td>HIT 240</td>
<td>Health Care Quality Management Assessment</td>
<td>3</td>
</tr>
<tr>
<td>HIT 230</td>
<td>Alternative Delivery Systems</td>
<td>2</td>
</tr>
<tr>
<td>HIT 265</td>
<td>HIM Computer Applications</td>
<td>2</td>
</tr>
<tr>
<td>MGMT 101</td>
<td>Introduction to Management</td>
<td>3</td>
</tr>
<tr>
<td>HIT 275#</td>
<td>HIM Practicum</td>
<td>3</td>
</tr>
</tbody>
</table>

+ This requirement may be met by HIT 150 plus 250.

# It is recommended that all HIT classes be completed before HIT 275 is begun. A background check and drug screen may be required by the host facility at the student’s expense.

Note: Each required course must be completed with a minimum grade of “C”.

College Requirements

For complete information see “Graduation Requirements” in the Catalog Index.

AS Degree: Cancer Information Management

Department Requirements (47 units)

Recommended sequence of courses.

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</tr>
<tr>
<td>CIM 100</td>
<td>Cancer Registry Management I</td>
<td>3</td>
</tr>
<tr>
<td>HIT 101</td>
<td>Introduction to Health Information Management</td>
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</table>
HIT 204 — Basic Pathophysiology ............................................... 3
CIM 125 — Cancer Disease Management ...................................... 4
CIM 201 — Abstracting Principles and Practice I ........................ 3
CIM 150 — Oncology Coding and Staging Systems ....................... 4
CIM 202 — Abstracting Principles and Practice II .......................... 3
CIM 225 — Cancer Registry Management-up ................................ 2
CIM 250 — Cancer Statistics and Epidemiology ........................... 3
HIT 240 — Health Care Quality Management ............................... 3
MGMT 101 — Introduction to Management .................................... 3
CIM 275* — CIM Practicum ....................................................... 3

* It is recommended that all CIM classes be completed before CIM 275 is begun. A background check and drug screen may be required by the host facility at the student’s expense.

Note: Each required course must be completed with a minimum grade of “C”.

College Requirements
For complete information see “Graduation Requirements” in the Catalog Index.

Certificate of Achievement:
Cancer Information Management
Department Requirements (47 units)
Recommended sequence of courses.
HIT 135 — Basic Medical Terminology ........................................ 3
BMS 146* — Human Form and Function ...................................... 3
COMP 101 — Introduction to Computer Applications ....................... 4
CIM 100 — Cancer Registry Management I .................................. 3
HIT 101 — Introduction to Health Information Management ............ 3
HIT 204 — Basic Pathophysiology .............................................. 3
CIM 125 — Cancer Disease Management ...................................... 4
CIM 201 — Abstracting Principles and Practice I ........................ 3
CIM 150 — Oncology Coding and Staging Systems ....................... 4
CIM 202 — Abstracting Principles and Practice II .......................... 3
CIM 225 — Cancer Registry Management-up ................................ 2
CIM 250 — Cancer Statistics and Epidemiology ........................... 3
HIT 240 — Health Care Quality Mgmt Assessment ........................ 3
MGMT 101 — Introduction to Management .................................... 3

Note: Each required course must be completed with a minimum grade of “C”. It is recommended that all CIM classes be completed before CIM 275 is begun. A background check may be required by the host facility.

Certificate of Achievement:
Medical Coding Specialist
Department Requirements (38 units)
Recommended sequence of courses.
COMP 101 — Introduction to Computer Applications ....................... 4
HIT 135* — Basic Medical Terminology ........................................ 3
BMS 146* — Human Form and Function ...................................... 3
HIT 101* — Intro. to Health Information Management .................... 3
HIT 102 — Legal Aspects of Health Care ...................................... 3
HIT 204 — Basic Pathophysiology .............................................. 3
HIT 201 — Pharmacology for Allied Health .................................. 2
HIT 202^ — ICD, Diagnostic Coding .......................................... 2
HIT 203^ — ICD, Procedural Coding .......................................... 3
HIT 210 — CPT Procedural Coding .......................................... 3
HIT 255+ — Medical Insurance and Reimbursement ....................... 4
HIT 205 — Advanced Coding Applications .................................. 4
HIT 280# — Medical Coding Practicum ....................................... 1

+HIT 150 plus HIT 250 will also satisfy this requirement.
# It is recommended that all other classes be completed before HIT 280 is begun. A background check and drug screen may be required by the host facility at the student’s expense.

Note: Each required course must be completed with a minimum grade of “C”.

Planning a Program of Study
Continually updated program information is available at www.sbcc.edu/HIT/website.

Program Cost and Outcome
For planning purposes, the following webpages provide information on the cost of attendance, program length (assuming a student attends full-time), financing options and historical student completion rates:
Health Information Technology Courses

HIT 101 — Introduction to Health Information Management
(3) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Introduction to the fundamental theories/practices of HIT, including health services organization and delivery; health data/record structure, content/standards; HIT functions/responsibilities; information systems, technologies/requirements; health information privacy/security.

HIT 102 — Legal Aspects of Health Care
(3) — CSU
Corequisites: Prior or concurrent enrollment in HIT 101
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Introduction to legal issues pertaining to healthcare, health information and the health record as a legal document. Patient privacy and confidentiality, patient rights, release of information, informed consents, advance directives, compliance, fraud and abuse, HIPAA and E-Health.

HIT 135 — Basic Medical Terminology
(3) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Introduction to medical terminology for body structure, body systems and diagnostic work. Prefixes, suffixes, word roots and combined word forms. Includes instruction in spelling, definition and pronunciation.

HIT 201 — Pharmacology for Allied Health
(2) — CSU
Prerequisites: BMS 146
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: HIT 135
Hours: 36 lecture
Introduction to pharmacology, basic pharmacological terminology and concepts, drug categories and their uses, mechanisms of drug action, dosage forms, routes of administration, and common generic and trade name medications.

HIT 202 — International Classification of Diseases, Diagnostic Coding
(2) — CSU
Prerequisites: HIT 101, 135 and BMS 146
Corequisite: HIT 204 (prior or concurrently)
Course Advisories: HIT 201
Hours: 36 lecture
Beginning overview of nomenclature and classification systems, with focus on coding inpatient clinical information from medical records. Instruction in coding diagnoses, using International Classification of Diseases, sequencing and coding conventions. Coding software applications introduced.

HIT 203 — International Classification of Diseases, Procedural Coding
(3) — CSU
Prerequisites: HIT 101, 204, 135 and BMS 146
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Overview, structure and organization of International Classification of Diseases, Procedure Classification System (ICD-10-PCS). Instruction in coding procedures per national coding guidelines. Coding software applications (Encoder) are used. Coding instruction entails coding from cases and health records.

HIT 204 — Basic Pathophysiology
(3) — CSU
Prerequisites: BMS 146
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Introduction to the fundamentals of pathophysiology, focusing on essential concepts of physiologic changes and altered functions in the human body resulting from disease processes. Principles from A&P and chemistry
provide the foundation for the study of pathophysiology, body systems, etiology and pathogenesis. Diagnostic procedures, preventative measures and current therapeutic regimens are explored.

HIT 205 — Advanced Coding Applications (4) — CSU
Prerequisites: HIT 202 and 203 and 210
Course Advisories: HIT 255
Hours: 72 lecture
Advanced medical coding for addressing more complex issues related to the CM and HCPCS/CPT coding. Lectures and assignments focus on using case studies, mock records and applying learning at a higher coding skill level. Computerized encoders and groupers emphasized.

HIT 210 — CPT Procedural Coding (3) — CSU
Prerequisites: HIT 101 and 135 and BMS 100
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Beginning HCPCS/CPT coding class for ambulatory services coding related to facility and professional services, with overview of coding conventions, principles, regulatory guidance and coding software.

HIT 220 — Health Information Management Statistics (2) — CSU
Prerequisites: COMP 101
Corequisites: Prior or concurrent enrollment in HIT 101
Skills Advisories: MATH 4 and Eligibility for ENG 110 or 110H
Hours: 36 lecture
Introduction to healthcare statistics, including a review of mathematics, interpretation of healthcare statistical formulas, presentation of data, and application of medical research tools. Use of statistics in relation to long-range healthcare planning and development, application of automated systems, integration of reports and registration of vital statistics.

HIT 230 — Alternative Delivery Systems (2) — CSU
Prerequisites: HIT 101
Course Advisories: COMP 101 and HIT 240
Hours: 36 lecture
Introduction to Health Information Management practice in alternative healthcare delivery systems, including ambulatory, long-term and managed care, mental health, rehabilitation medicine, and hospice and home health. Focuses on regulatory and accreditation requirements, funding and reimbursement, transition to the EHR, and health data privacy and security.

HIT 240 — Health Care Quality Management (3) — CSU
Prerequisites: COMP 101 and HIT 101
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: HIT 255
Hours: 54 lecture
 Applies continuous healthcare quality management and performance improvement principles to the hospital setting, focusing on historical, theoretical, and practical applications and methodologies. Includes data collection and analysis; regulatory, accreditation and patient safety compliance; credentialing and utilization; case and risk management.

HIT 255 — Medical Insurance and Reimbursement (4) — CSU
Corequisites: HIT 102 and 202 and 203
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: HIT 210
Hours: 72 lecture
Introduction to the basics of medical insurance billing. Current payment methodologies in the inpatient, hospital outpatient, and physician office settings. Focus on compliance with regulatory requirements and common billing practices.

HIT 265 — HIM Computer Applications (2) — CSU
Prerequisites: COMP 101 and HIT 101 with a minimum grade of “C”
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 36 lecture
Intermediate-level systems class focusing on computer applications in healthcare and health information management. Includes application of basic computer and communication concepts and technologies, systems development and analysis, workflow mapping, queries and reports for information retrieval, and migration to the electronic health record.
HIT 275 — HIT Practicum
(3) — CSU
Prerequisites: HIT 202 and 203 and 210 and 220 and 240 and 255 and 265
Corequisites: HIT 230
Skills Advisories: Eligibility for ENG 110 or 110H
Limitation on Enrollment: Health and safety regulations
Hours: 162 lab

Supervised onsite experience performing CAHIIM-required HIT competencies for an affiliated healthcare organization. Clinical practice is conducted as a non-paid, laboratory experience. Clinical practice may include a partial virtual practicum.

HIT 280 — Medical Coding Practicum
(1) — CSU
Prerequisites: HIT 202 and 203 and 210 and 255
Corequisites: Concurrent enrollment in HIT 205
Skills Advisories: Eligibility for ENG 98
Limitation on Enrollment: Health and safety regulations
Hours: 54 lab

Practicum in application of clinical classification systems, coding, case mix analysis and use of coded and abstracted data. Discussion focuses on directed practice activities. Supervised clinical experience focuses on coding patient care records. Students in supervised clinical practice have the status of learners. Clinical practice is conducted as a non-paid, laboratory experience.

HIT 284 — Certified Coding Associate Exam Preparation
(3)
Hours: 54 lecture

Review of principles of HIM documentation, coding reimbursement methodologies, compliance, and data quality to prepare medical coding certificate and medical coders for national coding certification examinations. Focus is on reviewing materials covered in the MCS Program, and on test-taking and studying techniques/strategies using mock test questions, discussion boards and other resources.

HIT 285 — Registered Health Information Technician Exam Preparation
(3)
Hours: 54 lecture

In-depth review of HIM principles and applications to prepare HIT program graduates for the AHIMA national RHIT examination. Focus is on reviewing materials covered in the HIT Program, as well as test-taking and studying techniques. Students use links to mock test questions, discussion boards and other resources to prepare them for the national exam.

Cancer Information Management Courses

CIM 100 — Cancer Registry Management I
(3) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture

Introduction to hospital-based and central cancer registries; legal issues; confidentiality; standard-setting organizations; types of cancer registries and other disease registries; data users, computer applications; quality control; and registry operations, including case ascertainment and registry files.

CIM 125 — Cancer Disease Management
(4) — CSU
Prerequisites: BMS 146 and HIT 135
Corequisites: CIM 100
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 72 lecture

Overview of the oncology disease process, using principles from anatomy, physiology and chemistry; diagnostic and staging procedures (laboratory, pathology, imaging and surgery); Treatments (surgery, radiation, chemotherapy, immunotherapy, etc.); emphasis on the major sites of cancer; overview of clinical trials/research protocols.

CIM 150 — Oncology Coding and Staging Systems
(4) — CSU
Prerequisites: CIM 125
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 72 lecture

Overview of oncology coding and staging systems (ICD-O-3, SSS2K, AJCC, the MP/H rules, and the Hematopoietic DB/Manual). Focus on coding clinical information from medical records; staging and extent of disease concepts used by physicians and cancer surveillance organizations; and the rules used to determine the number of primaries.
CIM 201 — Abstracting Principles and Practice I  
(3) — CSU  
Prerequisites: HIT 135  
Corequisites: Prior or concurrent enrollment in CIM 125  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture  
Identification/selection of appropriate clinical information from medical records for capture on the abstract, in a manner consistent with cancer registry regulatory core data requirements.

CIM 202 — Abstracting Principles and Practice II  
(3) — CSU  
Prerequisites: CIM 201  
Corequisites: Prior or concurrent enrollment in CIM 150  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture  
Application of the principles of cancer registry abstracting. Identification, selection and recording of appropriate cancer-related information consistent with regulatory requirements. Manual quality control edits of abstracted information to assure timeliness, completeness and accuracy of data.

CIM 225 — Cancer Registry Management II  
(2) — CSU  
Corequisites: Prior or concurrent enrollment in CIM 100  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 36 lecture  
Overview of management reports, cancer reporting to the central registry and the NCDB, survival analysis, clinical practice guidelines, uses of central cancer registry data, standard setters and professional organizations, central cancer registries, geographic information systems, federal and other types of registries, clinical trials and cancer registries in other countries.

CIM 250 — Cancer Statistics and Epidemiology  
(3) — CSU  
Prerequisites: CIM 201  
Corequisites: Prior or concurrent enrollment in CIM 202  
Skills Advisories: MATH 95 and Eligibility for ENG 110 or 110H  
Hours: 54 lecture  
Introduction to cancer statistics, descriptive and analytic epidemiology, cancer surveillance, annual report preparation, presentation of cancer data and special studies. Use of cancer statistical data for marketing and strategic planning.

CIM 275 — CIM Practicum  
(3) — CSU  
Prerequisites: CIM 202 and 225 and 250  
Corequisites: HIT 240 prior to or concurrent  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 162 lab  
Supervised clinical experience in performing NCRA-required CIM competencies in a cancer registry setting. Students are assigned to affiliated hospital or central cancer registry for supervised professional practice. Students have the status of learner and shall not be considered agency employees, nor do they replace employed staff. Clinical practice is conducted as a non-paid, laboratory experience.
History

Degrees
Associate in Arts Degree: History
Associate in Arts Degree (AA-T): History for Transfer

Program Description
History is the disciplined study of the human past. Santa Barbara City College offers a varied and integrated curriculum in history. For the major, the History Department provides the opportunity to pursue creative, critical and analytical historical thought in a rigorous manner. For the non-major, the History Department’s courses offer enrichment, support and perspective to the student’s major field of interest. Central to the liberal arts, history supplies a solid foundation for business, legal studies and education, as well as graduate study. Introductory courses normally precede more specialized offerings.

Program Student Learning Outcomes
1. Incorporate evidence derived from primary and secondary sources to support a thesis
2. Evaluate historical evidence for bias and for relevance to major historical issues and controversies
3. Identify change over time, cross-cultural connections, and links between past and present

Faculty and Offices
Matt Mooney, Chair (IDC-358, ext. 4744)
Justina (“Tina”) Bueller (IDC-360)
David Elliott (IDC-361, ext. 2480)
Danielle Swiontek, (IDC-358, ext. 3736)
Alice Perez, Dean (A-118, ext. 2354)

AA Degree: History
We offer classes to satisfy the course requirements for the History major. We encourage each student to meet with a member of our History faculty for further guidance.

Department Requirements (21-24 units)
12-14 units of the following
HIST 101 — History of the U.S. to 1877 ................. 3
HIST 102 — History of the U.S. since 1865 or .......... 3
HIST 102H — History of the U.S. since 1865, Honors .... 4
HIST 103 — History of Western Civilization .......... 3
HIST 104 — History of Western Civilization or ....... 3
HIST 110 — History of American Women ............... 3
HIST 111 — The American West as Frontier and Region ... 3
HIST 112/ENVS 112 — American Environmental History .... 3
HIST 120 — Modern Europe ................................ 3
HIST 121 — History of Great Britain .................... 3
HIST 122 — History of Great Britain .................... 3
HIST 107 — World Civilization, Beginnings to 1550 .... 3
HIST 108 — World Civilization, 1550 - Present ....... 3
HIST 115 — The Vietnam Wars ......................... 3
HIST 127 — History of Russia ........................... 3
HIST 133 — History of Latin America: BC to 1800s .... 3
HIST 134 — History of Latin America: 1800s to Modern Period ...... 3
HIST 135 — History of Mexico ............................ 3
HIST 137 — History of Religions of the Middle East .... 3
HIST 138 — History of Modern Middle East .......... 3

College Requirements
For complete information, see “Graduation Requirements” in the Catalog Index.

Requirements for AA-T Degree—History for Transfer
The goal of the History Program at Santa Barbara City College is to prepare students to develop the fundamental understanding of history, the disciplined study of the human past. Santa Barbara City College offers a varied and integrated curriculum in history. The History Department provides the opportunity to pursue creative, critical and analytical historical thought in a rigorous manner. Central to the liberal arts, history supplies a solid foundation for business, legal studies and education, as well as graduate study.
The Associate in Arts Degree in History for Transfer provides students with the foundational knowledge in History to make a successful transition into a Baccalaureate Degree in History at any of the CSU campuses.

Degree Requirements
Complete 60 CSU-transferable units including general education, major requirements and CSU-transferable electives as follows:

I. General Education
Complete one of the following patterns:
• Intersegmental General Education Transfer Curriculum “IGETC” for CSU (34-40 semester units)
• California State University General Education Breadth pattern (39 semester units)

II. Major
Complete 18-24 units as outlined below with a “C” or better in each course. Pass/No Pass grading is not permitted in a course within a student’s major area of study. The courses completed for the major may also be used to fulfill General Education areas on the IGETC or the CSU GE Breadth.

Required Core Course (6-7 units)
HIST 101* — History of the U.S. to 1877 .........................3
HIST 102* — History of the U.S. since 1865 or ..................3
HIST 102H* — History of the U.S. since 1865, Honors .......4

List A: Select two courses from the following (6-7 units)
HIST 103* — History of Western Civilization or ...............3
HIST 107* — World Civilization, Beginning-1550.............3
HIST 104* — History of Western Civilization or ...............3
HIST 113H* — Hist of Western Civilization, Honors or ......4
HIST 108* — World Civilization, 1550-Present ...............3

List B: Select one course from each group (6-10 units):

Group 1
World History (HIST 107 or 108), if not selected above or
American Sign Language 101*, 102*, 103*, 104*
Arabic 101*, 102*
Asian-American Studies 101*, 102*
Black Studies 101*, 102*, 102H* 103*, 113*
Chicano Studies 101*, 102*, 103*, 113*, 114*, 115*, 121*
Chinese 101*, 102*, 103*
Ethnic Studies 101*, 101H*, 107*, 121*, 122*
French 101*, 102*, 103*, 104*
German 101*, 102*, 103*, 104*
Hebrew 101*, 102*
History 114*, 114H*, 134*, 135*, 137*, 138*
Italian 101*, 102*, 103*, 104*
Japanese 101*, 102*, 103*, 104*
Korean 101*, 102*
Latin 101*, 102*
Native American Studies 101*, 102*, 103*, 104*, 105*, 113*
Sociology 107
Spanish 101*, 102*, 103*, 104*, 146*, 147*, 150*, 160*

Group 2
Any List A course not selected above or
Anthropology 103*, 109*, 113*
Art 102A*, 102B*, 103* or 103H*, 104* or 104H*, 106*, 108*, 110*, 111*, 112*, 211*, 215*, 216*
Chicano Studies 130*, 131*
Communication 151*
Earth and Planetary Sciences 142*
Economics 101*, 102*, 106*
English 221*, 222* or 222H*, 225*, 226*, 226H*, 231*, 232*, 241*
Environmental Studies 112*
Film Studies 116*
Geography 102*, 104*, 105*
Global Studies 101*, 102*
History 110* or 110H, 111*, 112*, 115*, 120*, 121*, 122*, 127*
Native American Studies 112*
Philosophy 100* or 100H*, 101* or 101H*, 102* or 102H*, 200*, 201*, 203*, 207A
Political Science 101*, 104*, 121*, 131*, 132*
Psychology 100*, 100H*
Sociology 101*, 101H*

* All of these courses fulfill an IGETC and/or a CSU GE Breadth pattern requirement. Visit www.assist.org or articulation.sbcc.edu for IGETC and CSU GE Breadth requirements.

III. CSU-Transferable Electives
Complete as many units as needed to reach a total of 60 CSU-transferable units (for a list of SBCC-transferable courses to CSU, visit www.assist.org).
Additional Graduation Requirements for AA-T in History:
- Maintain a cumulative CSU-transferable GPA of 2.0.
- Residency Requirements: Candidates for an Associate Degree are expected to complete 15 semester units in residence at SBCC. Candidates for an Associate Degree are also expected to complete at least 20% of the department major requirements in residence at SBCC.

Planning a Program of Study
The Santa Barbara City College History curriculum encompasses nearly all of the courses taken during the first two years at any branch of the University of California and the California State Universities. The offerings also duplicate the lower-division and general education history courses of many private colleges and universities.

Courses in American History satisfy the American Institutions Requirement (AIR) at SBCC, the University of California and other state and private colleges. Elective History courses are offered to meet the needs of History majors as well as of students in other academic and interdisciplinary majors.

American Institutions (AIR)
The American Institutions Requirement (AIR) for the Associate in Arts or Science Degrees from Santa Barbara City College may be satisfied in part or entirely by any of the following: HIST 100 or 101 and 102, or 102H.

Multicultural/Gender Studies
The Multicultural/Gender Studies Requirement for the Associate in Arts/Science Degrees from Santa Barbara City College may be satisfied entirely by any one of the following: HIST 110, 111, 127, 130, 131, 132, 133, 134, 135, or 138, ETHS 101/HIST 114, or ETHS 101H/HIST 114H.

Preparation for Transfer
Course requirements for transfer vary depending upon the college or university a student wishes to attend. Therefore, it is most important for a student to consult with his/her counselor and department adviser before planning an academic program for transfer. Information sheets for majors, outlining transfer requirements, are available in the Counseling Center.

Honors and Awards
The History faculty selects one student each year to be honored as "Outstanding Student." Students are nominated by members of the faculty and selections are made on the basis of academic achievements and contributions to campus life. Honors course sections are available for able students in HIST 102 and 104 (HIST 113H).

Special Programs and Courses
Honors Courses
HIST 102H (History of the U.S. Since 1865, Honors)
HIST 113H (History of Western Civilization, 1500 to Present) and HIST 114H (Immigration Experience in the U.S.) are for students enrolled in the Honors Program.

Advising
Our faculty is eager to provide counseling to students seeking to explore career opportunities that relate to history as a discipline, or needing further information about any of our course offerings. Dr. David Elliott is the History Department faculty adviser.

Student Participation
We invite student suggestions at any time about needed changes in curriculum or additions to our program. Our course offerings are constantly under review and we welcome student perspective.

History Courses
HIST 101 — History of the U.S. to 1877 (3) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Analysis of United States social, economic, political and institutional developments from the first European settlements through Reconstruction.

HIST 102 — History of the U.S. since 1865 (3) — CSU, UC*
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Analysis of United States social, economic and institutional developments from, 1865 to the present. (*UC Transfer Limit: HIST 102 and 102H combined: maximum credit, one course).
HIST 102H — History of the U.S. since 1865, Honors (4) — CSU, UC*
Skills Advisories: Eligibility for ENG 110 or 110H
Limitation on Enrollment: Honors Program Acceptance.
See “Honors Program” section of this Catalog.
Hours: 72 lecture
Analysis of social, economic, and institutional developments in the United States, from 1865 to the present. (*UC Transfer Limit: HIST 102 and 102H combined: maximum credit, one course).

HIST 103 — History of Western Civilization (3) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Analysis and discussion of major ideas, attitudes and events that have shaped the Western mind and the structure of Western civilization. Emphasis on the relationship of ideas to their historical context. Traces civilization from the ancient world through the development of the nation-state system to 1660.

HIST 104 — History of Western Civilization (3) — CSU, UC*
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Analysis and discussion of major ideas, attitudes and events that have shaped the Western mind and the structure of Western civilization. Emphasis on the relationship of ideas to their historical context. Surveys Western civilization from the era of Louis XIV to the present. (*UC Transfer Limit: HIST 104 and 113H combined: maximum credit, one course).

HIST 107 — World Civilization, Beginnings to 1550 (3) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Survey of world history, from its beginnings to the 16th century. Comparative examination of political, social and religious development. Examines cultural interaction between civilizations.

HIST 108 — World Civilization, 1550 to Present (3) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Examines important social, political and ideological developments around the world, from the 16th century to the present. Considers the causes and consequences of increased global interaction.

HIST 110 — History of American Women (3) — CSU, UC*
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Economic, social, political and cultural history of women in America from colonial times to the present. (*UC Transfer Limit: HIST 110 and 110H combined: maximum credit, one course)

HIST 110H — History Of American Women (Honors) (4) — CSU, UC*
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Economic, social, political and cultural history of women in America, from colonial times to the present. (*UC Transfer Limit: HIST 110 and 110H combined: maximum credit, one course)

HIST 111 — The American West as Frontier and Region (3) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Interpretive survey of the historic interplay between Europeans, Native Americans and other ethnic minorities against the backdrop of the American Westward movement from pre-Columbian times to the present.

HIST 112/ENVS 112 — American Environmental History (3) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Examines American attitudes and actions toward the environment by Indians and European immigrants from the colonial period to the present. Analyzes current environmental problems in the context of American development.
HIST 113H — History of Western Civilization: 1600 to Present, Honors  
(4) — CSU, UC*  
Skills Advisories: Eligibility for ENG 110 or 110H  
Limitation on Enrollment: Honors Program Acceptance  
Hours: 72 lecture  
Critical analysis and discussion of major ideas and attitudes that have shaped the Western mind and structure of Western civilization. Emphasis on the relation of ideas to this historical context. Western civilization from the beginning of the modern era to the present. (*UC Transfer Limit: HIST 104 and 113H combined: maximum credit, one course)  

HIST 114/ETHS 101 — The Immigrant Experience in the U.S.  
(3) — CSU, UC*  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture  
Comparative study of foreign immigrants in the United States from the mid-19th century to the present. Examines ethnic identity and nativist resistance to newcomers. Particular attention is paid to Hispanic and Asian as compared to European immigrants. Analyzes the social and economic conditions, as well as cultural factors, that shape immigrant adjustment patterns. (*UC Transfer Limit: HIST 114/ETHS 101 and HIST 114H/ETHS 101H combined: maximum credit, one course)  

HIST 114H/ETHS 101H — The Immigrant Experience in the U.S., Honors  
(4) — CSU, UC*  
Skills Advisories: Eligibility for ENG 110 or 110H  
Limitation on Enrollment: Honors Program Acceptance  
Hours: 72 lecture  
Lecture and seminar. Comparative study of foreign immigrants in the United States from the mid-19th century to the present. Examines ethnic identity and nativist resistance to newcomers. Analyzes the social and economic conditions, as well as cultural factors, that shape immigrant adjustment patterns. (*UC Transfer Limit: HIST 114/ETHS 101 and HIST 114H/ETHS 101H combined: maximum credit, one course)  

HIST 115 — The Vietnam Wars  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture  
History of wars fought in Vietnam since the 1940s, with particular emphasis on American involvement.  

HIST 120 — Modern Europe  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture  
European history from the late 19th century to the present, emphasizing the two world wars and the rise of the totalitarian dictatorships since World War I.  

HIST 121 — History of Great Britain  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture  
History of Great Britain, from earliest times to 1688.  

HIST 122 — History of Great Britain  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture  
History of Great Britain from 1688 to the present.  

HIST 127 — History of Russia  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture  
Russian cultural, economic, political and social development, from the ninth century to the present. Emphasis on period after 1760, with stress on Russian international goals, foreign policy and internal change.  

HIST 133 — History of Latin America: BC to 1800s  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture  
Examines the evolution of Latin America from pre-Columbian days to the early 1800s. This evolution is analyzed from cultural, political, economic and diplomatic perspectives.
HIST 134 — History of Latin America: 1800s to Modern Period  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture  
Examines the evolution of Latin America from the early 1800s to the present. This evolution is analyzed from cultural, political, economic and diplomatic perspectives.

HIST 135 — History of Mexico  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture  
Examines the political, social, cultural, and economic history of Mexico from pre-Columbian times to the present.

HIST 137 — History of Religions of the Middle East  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture  
Introduction to the history of the three major religious traditions of the Middle East: Judaism, Christianity and Islam in comparative perspective, as well as explore the historical context of religion in the Middle East.

HIST 138 — History of Modern Middle East  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture  
Recent and contemporary history of the Middle East that examines the roots of the present political, cultural and economic situation in this crucial part of the world.

HIST 299 — Independent Study in History  
(1-4) — CSU  
Limitation on Enrollment: Complete 12 units at SBCC with a GPA of 2.5 and a minimum of 6 units with a GPA of 3.0 in the History Department.  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 48-192 lab  
Student works under guidance and direction of sponsoring faculty member on project consistent with interests and abilities. Minimal weekly meetings required.
Honors

Certificates of Achievement
Honors: Humanities/Social Sciences Emphasis
   (Certificate and Certificate, with highest honors)
Honors: Science/Mathematics Emphasis
   (Certificate and Certificate, with highest honors)

Program Description
The Honors Program is open to all students who have met high academic standards and who wish to participate in an educational plan that provides a unified introduction to the nature and growth of human knowledge. Honors courses contribute breadth to students' majors in both humanities and sciences; they show connections and interrelationships between disciplines; and they satisfy all SBCC General Education, Mathematics and American Institutions Requirements for the Associate in Arts or Science Degree.

Honors courses foster scholarship and individual, creative thought. The Honors Program provides the opportunity to develop the skills of critical thinking, expository and argumentative writing, and effective oral communication. Challenging outside research, stimulating field trips and sophisticated literature prepare students to contribute to the development of the ideas and themes of the Honors courses. Over the last four years, Honors has hosted a campus-wide conference on important topics such as revolution and the environment. Honors students help select the papers and run the conference. They contribute creative ideas to the conference's opening ceremony, and they then help select papers for publication on our online Honors website.

Combined with the excellence of SBCC’s academic majors, the Honors curriculum provides the strongest preparation for transfer to public and private universities and colleges, and all Honors Program courses are designed to meet General Education, IGETC and college requirements.

The Honors Guild
Honors students created the Honors Guild as a group through which they can meet other Honors students and can influence their environment, be it SBCC, Santa Barbara, or the web. The Guild is instrumental in running the Annual SBCC Student Conference, hosted by Honors, as well as maintaining our website and using that as a virtual community. Additionally, the Guild provides students a chance to make their concerns widely known: over the years, Honors students have worked with local schools, have started reading groups, have bowled together and so on. They selected the word “guild” to suggest their affiliation as curious, interesting learners.

Faculty and Offices
The Honors Program faculty develops, coordinates and teaches the Honors curriculum. These faculty also serve as advisers to Honors students. Students interested in the Honors Program may contact:

Director: Melanie Eckford-Prossor, English
   (IDC-311, ext. 3014, prossor@sbcc.edu)
Marc Bobro, Philosophy (IDC-357, ext. 4710)
Craig Cook, American Ethnic Studies
   (IDC-329-A, ext. 4742)
William Dinklage, Earth Sciences (EBS-114, ext. 4723)
David Elliott, History (IDC-361, ext. 2480)
Wendy Peters, Counseling (SS-120, ext. 2377)
Michael Stinson, Film Studies
   (ECOC-1, #14, ext. 3022)
Cameron Sublett, Communication
   (BC-102-C, cmsublett@sbcc.edu)
Mike Walker, English (IDC-306, ext. 2706)
Alice Perez, Dean (A-118, ext. 2354)

For information about the Honors Program, contact the Director at (805) 965-0581, ext. 3014, or Vanessa Pelton, ext. 4736.

Eligibility for Honors Program
Students may apply for entrance to the Honors Program based on high school transcripts. For consideration, a student’s high school grade point average must be at least 3.0, with no grade below a “C” in an academic subject.

Continuing, returning and transfer students who have completed 12 units of academic course work may apply for entrance into the Honors Program based on college units completed. A minimum overall college grade point average of 3.0 is required, with no grade below a “C” in an academic subject.

To be accepted into the Honors Program, students must demonstrate eligibility for ENG 110 and at least
MATH 107 (Intermediate Algebra). Mathematics eligibility is met with three years of high school math, including two years of algebra, with grades of “C” or better. English and Mathematics placement examinations are part of the SBCC enrollment procedure.

It is expected that some potential Honors students entering from high school will have satisfied the SBCC ENG 110 requirement by completing advanced placement English or SBCC ENG 110 in high school. These students should contact the Honors Program Director or Program Counselor or the SBCC Assessment Office.

How to Apply
Applications for the Honors Program must be filed with the Honors Program Counselor in the Counseling Center. All new and returning students requesting entrance into the Honors Program are required to file two applications: an application for admission to SBCC and a separate application for admission into the Honors Program. Official high school transcripts must be submitted with the applications of students using high school records to qualify. Continuing students are required to file only the application for admission to the Honors Program.

Application forms and further information may be obtained from the Admissions and Records Office, the Counseling Center and the Honors Program Director’s office (IDC-311).

The application deadline for admission to SBCC and the Honors Program each fall semester is in August. In order for a student’s application to be considered by the Honors Program, English and Mathematics placement examination scores and all supporting materials must be on file at Admissions and Records. Placement examination dates and locations may be obtained from the Counseling Center.

Honors Scholarships
The Santa Barbara City College Foundation provides a generous array of scholarships donated by individuals and businesses. These scholarships are broadly available to qualified incoming freshmen applying to the Honors Program and to all continuing students participating in the Honors Program. Recipients of Honors scholarships are required to remain in the Honors Program, in good standing, for the duration of their course of study at SBCC. For further information about scholarships available to Honors students and requirements, contact the Honors Program Director and/or the Financial Aid Office.

Outstanding Honors Program Student
The Honors Program Committee selects one student each year from within the Honors Program to receive the “Outstanding Honors Student” award. Selection is based primarily on the student’s academic excellence and may also consider service to the Honors Guild, to the college or to the larger community. No application is required. The recipient will be honored at the Awards Banquet held by the college in the spring of each year.

Honors Transfer Agreements and Transfer Scholarships
Completion of the Honors Program (Social Sciences and Humanities or Sciences/Mathematics track) makes available to the student transfer agreements and transfer scholarships. For details, contact the Honors Program Director or Wendy Peters, Counseling Center, (805) 965-0581, ext. 2377.

Honors Society: Phi Theta Kappa
Phi Theta Kappa is the international honor society for two-year colleges. Santa Barbara City College’s chapter of Phi Theta Kappa is Beta Gamma Upsilon. Although not tied to the Honors Program, membership in Phi Theta Kappa and in the Honors Program complement each other perfectly. Students are required to have completed 12 units at SBCC and have a GPA of 3.5 to be considered for membership.

The benefits of membership include nationwide recognition of scholarly excellence, scholarships, access to prestigious universities, special graduation certificates and transcript notations, leadership opportunities as chapter officers, and fellowship and service opportunities at SBCC and in the community. For more details on how to apply, contact the campus adviser, Manou Eskandari-Qajar, IDC-357, ext. 2435.

Certificate of Achievement: Honors: Humanities/Social Sciences Emphasis
Students will receive an “Honors Certificate of Achievement: Social Sciences and Humanities” when they have successfully completed at least six Honors Program courses (16.5 units minimum) with a grade point average of 3.0 in Honors courses and no grade below a “B” in any Honors course (a maximum of
one honors course may be completed with a “C”). Students will receive a “Certificate of Achievement, with Highest Honors” by meeting these requirements and maintaining a cumulative GPA of 3.5 or better for all coursework completed at SBCC. Candidates for a Certificate of Achievement are expected to complete at least 20% of the department requirements through SBCC. Pass/No Pass grading is not permitted in a course within a student’s major area of study.

Department Requirements (16.5-24 units)
ART 104H — Hist. of Art, Renaiss to Modern, Honors ................. 4
BIOL 110H — Natural Science, Honors .................................. 4
COMM 121H — Interpersonal Communication, Honors .......... 3
COMM 131H — Fundamentals of Public Speaking, Honors ........ 3
ENG 110H — Composition and Reading, Honors ............ 3
ENG 111H — Crit. Think and Comp thru Lit, Honors or .......... 3
ENG 226H — American Literature, Honors ......................... 4
ENG 282ABCDH* — Topics in Literature, Honors ............ 0.5-2
ERTH 101H — Introductory Astronomy, Honors ............. 4
ERTH 111H — Dynamic Earth – Physical Geol, Honors .... 4
FS 101H — Introduction to Film, Honors .................. 4
HIST 102H — History of the U.S. Since 1865, Honors .......... 4
HIST 113H — Hist. of West Civ., 1600-Present, Honors .... 4
HIST 114H — The Immigrant Exp. in U.S., Honors or .......... 4
ETHS 101H — The Immigrant Exp. in the U.S., Honors..4
MATH 117H — Elementary Statistics, Honors ................ 4
MUS 110H — Music Appreciation, Honors ................. 4
PHIL 101H — Introduction to Ethics, Honors ................ 4
PHIL 102H — Comparative World Religions, Honors .... 3
PHYS 101H — Conceptual Physics, Honors ................ 4
POLS 106H — The Presidency and Amer. Instit., Honors .......... 3
POLS 134H — Political Violence, Honors ................ 4
POLS 151H — Law and Society, Honors ................ 3
PSY 100H — General Psychology, Honors ................ 4
SOC 101H — Introduction to Sociology, Honors ................ 4

* ENG 282ABCDH can only be taken once for credit toward the Certificate of Achievement.

Certificate of Achievement: Honors: Science/Mathematics Emphasis

Certificate Requirements: Students will receive an “Honors Certificate of Achievement: Sciences/Mathematics” when they have successfully completed at least four Science/Math courses (12 units minimum) and four Honors Program courses (10.5 units minimum) with a grade point average of 3.0 in Honors courses and no grade below “B” in any Honors course (a maximum of one honors course may be completed with a “C”). Students will receive a “Certificate of Achievement, with Highest Honors” by meeting these requirements and by maintaining a cumulative GPA of 3.5 or better for all coursework completed at SBCC. Candidates for a Certificate of Achievement are expected to complete at least 20% of the department requirements through SBCC. Pass/No Pass grading is not permitted in a course within a student’s major area of study.

Department Requirements (22.5-36.5 units)

I. Complete 4 science/mathematics courses for a total of 12-20.5 units selected from:

BIOL 101 — Plant Biology ............................................. 5
BIOL 102 — Animal Biology ............................................ 5
BIOL 103 — Cell Biology ............................................. 5.5
BIOL 104 — Molecular Biology .................................. 4
CHEM 155 — General Chemistry I .......................... 5
CHEM 156 — General Chemistry II .......................... 5
CHEM 211 — Organic Chemistry I .......................... 3
CHEM 212 — Organic Chemistry II .......................... 3
CHEM 221 — Organic Chemistry Laboratory I ........ 2.3
CHEM 222 — Organic Chemistry Laboratory II ........ 2.5
CS 101 — Computer Concepts .................................. 4
CS 105 — Theory and Practice I ............................. 3
CS 106 — Theory and Practice II ............................. 3
CS 107 — Computer Architecture Organization .......... 3
CS 108 — Discrete Structures .................................. 4
CS 120 — Java Programming .................................. 3
CS 130 — Introduction to Linux Operating System .......... 2.5
CS 137 — C Programming .................................. 3
CS 140 — Object-Oriented Programming, Using C++ .......... 4

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**ART 104H — History of Art, Renaiss. to Mod., Honors**

units selected from:

**II. Complete 4 Honors courses for a total of 10.5-16 units selected from:**

ART 104H — History of Art, Renaiss. to Mod., Honors......4  

**Program Committee.** Students taking only selected classes in the program should be aware of the interrelatedness of the Honors curriculum. It is important that students consult with the faculty adviser in the department of their major and a member of the Honors Program Committee.

**Planning a Program of Study**

The Honors Program courses are designed as an integrated general education complement to major requirements in all disciplines. Careful planning is essential for simultaneous completion of Honors and departmental requirements. Students taking only selected classes in the program should be aware of the interrelatedness of the Honors curriculum. It is important that students consult with the faculty adviser in the department of their major and a member of the Honors Program Committee.
Students are encouraged to enroll in the program beginning with each Fall Semester. However, applications will be considered for Spring admission if space allows. Students planning to complete an AA Degree in two years must plan to take one to two Honors courses per semester in the Honors: Social Sciences and Humanities track and one Honors course per semester in the Honors: Sciences/Mathematics track.

Most Honors courses rotate into the curriculum on a two- to three-year cycle. Additional Honors classes and sections may be offered at various times. Check the Schedule of Classes and the Honors class listings available at the Director’s office for any new or additional offerings each semester.

**Honors Courses**

**HNRS 100 — Honors Colloquium**
(0.5)
*Limitation on Enrollment: Honors Program Acceptance*
*Hours: 9 lecture*

Interdisciplinary colloquium on a selected topic each semester, designed to aid in students’ transition to the Honors Program. Strengthens academic, cognitive and social skills, as well as introduces the aims and requirements of the Honors Program. Led by faculty members from various college departments, invited guest speakers from the college and the community address the semester’s topic.

**ANTH 101H — Physical Anthropology**
(4) — CSU, UC*
*Skills Advisories: Eligibility for ENG 110 or 110H*
*Hours: 72 lecture*

Biological aspects of human characteristics and behavior, the relationship of humans to other animals, the origins and evolutionary adaptations of human populations, and the biological basis for the diversity of human groups. Emphasis on reading and discussing selections from classic and contemporary research, and producing original research projects. (*UC transfer limit: 101 and 101H combined: maximum credit, one course)*

**ANTH 102H — Introduction to Archaeology Honors**
(4) — CSU, UC*
*Skills Advisories: Eligibility for ENG 110 or 110H*
*Hours: 72 lecture*

Introduction to the methods and theories of anthropological archaeology, as well as a review of significant data and models that contribute to knowledge of the human past. Includes the history and interdisciplinary nature of archaeological research; dating techniques; field and laboratory methods; CRM; ethical considerations; and selected cultural sequences. (*UC transfer limit: 102 and 102H combined: maximum credit, one course)*

**ART 103H — History of Art, Prehistoric to Gothic, Honors**
(3) — CSU, UC*
*Skills Advisories: Eligibility for ENG 110 or 110H*
*Hours: 54 lecture*

Survey of art from prehistoric times through the Gothic period, and an examination of its cultural and conceptual contexts. (*UC Transfer Limit: ART 103 and 103H combined: maximum credit, one course)*

**ART 104H — History of Art, Renaissance to Modern, Honors**
(4) — CSU, UC*
*Skills Advisories: Eligibility for ENG 110 or 110H*
*Limitation on Enrollment: Honors Program Acceptance*
*Hours: 72 lecture*

Survey of the history of Western art, its styles and cultural context, from the Renaissance to the present. (*UC Transfer Limit: ART 104H and 104 combined: maximum credit, one course)*

**BIOL 110H — Natural Science, Honors**
(4) — CSU, UC*
*Skills Advisories: Eligibility for ENG 110 or 110H*
*Limitation on Enrollment: Honors Program Acceptance*
*Hours: 72 lecture*

Introduction to the physical and chemical principles important to an understanding of biological architecture and function. Laboratory and field investigations of forces, light and biomaterials; optimal form; bioenergetics; functional design. Satisfies General Education requirement in Natural Sciences. (*UC Transfer Limit: BIOL 110 and 110H combined: maximum credit, one course)*

**BLST 102H — The African-American in U.S. History from Civil Rights Movement to Present, Honors**
(4) — CSU, UC*
*Skills Advisories: Eligibility for ENG 110 or 110H*
*Hours: 72 lecture*
Comprehensive examination of the history of Black people in American society and culture from the Civil Rights Movement to the present, with special emphasis on contributions, institutions, trends, movements and problems relevant to Black America. The award-winning film series, Eyes on the Prize, serves as a focal point. (*UC Transfer Limit: BLST 102 and 102H combined: maximum credit, one course)

**COMM 121H — Interpersonal Communication, Honors**
(3) — CSU, UC*
*Limitation on Enrollment: Honors Program Acceptance*
*Skills Advisories: Eligibility for ENG 110 or 110H*
*Hours: 54 lecture*

Introduction to the principles of effective communication in interpersonal relationships. Study of verbal and non-verbal channels, person perception, conflict resolution, listening and communication barriers. In-depth exploration of selected concepts using selected readings and case studies. (*UC Transfer Limit: COMM 121, 121H and 122 combined: maximum credit, one course)

**COMM 131H — Fundamentals of Public Speaking, Honors**
(3) — CSU, UC*
*Limitation on Enrollment: Honors Program Acceptance*
*Skills Advisories: Eligibility for ENG 110 or 110H*
*Hours: 54 lecture*

Instruction in public speaking, stressing audience analysis, organization and support of ideas. Students prepare and deliver speeches on topics coordinated with other courses in the Honors Program. (*UC Transfer Limit: COMM 131 and 131H combined: maximum credit, one course)

**ENG 110H — Composition and Reading, Honors**
(3) — CSU, UC*
*Prerequisites: ENG 98 with a “P” and ENG 70 with a “C” or ENG 88 and 70 with a “C” or ENG 89 with a “P” and ENG 70 with a “C” or qualifying score on SBCC placement exam.>*
*Corequisites: ENG 120*
*Limitation on Enrollment: Honors Program Acceptance*
*Hours: 54 lecture*

First semester of freshman English for students enrolled in the Honors Program. Expository writing based on critical reading and coordinated with other Honors courses. Designed to improve student's skills in writing effectively, reading carefully and thinking clearly. (*UC Transfer Limit: ENG 110 and 110H combined: maximum credit, one course)

**ENG 111H — Critical Thinking and Composition through Literature, Honors**
(3) — CSU, UC*
*Limitation on Enrollment: Honors Program Acceptance*
*Prerequisites: ENG 110 or 110H with a “C” or better*
*Hours: 54 lecture*

Study of critical thinking and composition, combined with instruction in literature. Emphasizes understanding and writing about literature using principles of logical analysis, criticism, advocacy of ideas, inductive and deductive reasoning. Students examine assumptions upon which conclusions are based and recognize common logical errors of language and thought. Instruction in methods of research and advanced elements of style and organization. Through instruction in critical thinking skills and application of logical methodology to the literary works of various genres, students achieve a disciplined understanding of the material. (*UC Transfer Limit: ENG 111 and 111H, combined: maximum credit, one course)

**ENG 222H — Survey of British Literature, Honors**
(4) — CSU, UC*
*Prerequisites: ENG 110 with a minimum grade of “C” or ENG 110H with a minimum grade of “C”.*
*Hours: 72 lecture*

Survey of British literature during the 19th, 20th and 21st centuries, including fiction, poetry, drama and essays. (*UC Transfer Limit: ENG 222, 222H combined: maximum credit, one course)

**ENG 226H — American Literature, Honors**
(3) — CSU, UC*
*Prerequisites: ENG 110 or 110H with a “C” or better*
*Limitation on Enrollment: Honors Program Acceptance*
*Course Advisories: ENG 111 or 111H*
*Hours: 54 lecture*

Intensive study of post-Civil War American culture through a reading of its major authors. Included are novels, short stories, drama and poetry by Americans from various racial and ethnic backgrounds. Students are active participants in the study of the diversity of America’s cultural heritage. (*UC Transfer Limit: ENG 226 and 226H combined: maximum credit, one course)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Hours</th>
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<tr>
<td>ENG 292H</td>
<td>Advanced Literary Analysis, Honors</td>
<td>2</td>
<td>36</td>
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<td>CSU</td>
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<td>Prerequisites: ENG 110 or 110H with a “C” or better</td>
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<td>Hours: 36 lecture</td>
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<td>By practicing a variety of in-depth literary analyses across a variety of texts and genres, students will see and understand the application of theories to texts.</td>
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<td>ERTH 101H</td>
<td>Introductory Astronomy, Honors</td>
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<td>Corequisites: ERTH 102</td>
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<td>Introduces students to the universe throughout its history. It emphasizes astronomical knowledge from Earth, as a planet in the solar system, to quasars at the edge of the known universe. The motions of objects within the galaxy are also examined.</td>
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<td>(*UC Transfer Limit: ERTH 101 and 101H combined: maximum credit, one course)</td>
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<td>ERTH 111H</td>
<td>Dynamic Earth - Physical Geology, Honors</td>
<td>4</td>
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<td>Corequisites: ERTH 111L (concurrently)</td>
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<td>ERTH 131 or 132</td>
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<td>Hours: 72 lecture</td>
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<td>Honors introduction to the physical development of the earth. Emphasis on earth materials (rock and minerals), hydrologic processes (weathering, streams, glaciers, beaches and ground water), tectonic processes (plate tectonics, earthquakes, mountain building and volcanism) and structures (folds, faults). Current theories on structure and evolution of the earth are discussed.</td>
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<td>FS 101H</td>
<td>Introduction to Film, Honors</td>
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<td>Hours: 90 (63 lecture, 27 lab)</td>
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<td>Introduction to one of the most powerful cultural and artistic mediums of our time: cinema. Topics include film production, cinema techniques and visual styles, as well as a critical analysis of film through the relationship of visual form, structure and thematic content. Focuses on film aesthetics, history, literature and creative techniques, on the depiction of social cultures, history and values in film, and includes an in-depth examination of major directors and important film movements. Lectures, discussions and reading are supplemented by the screening of representative films.</td>
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<td>HIST 102H</td>
<td>History of the United States since 1865, Honors</td>
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<td>Skills Advisories: Eligibility for ENG 110 or 110H</td>
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<td>Hours: 72 lecture</td>
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<td>Analysis of critical issues in United States social development, economy and politics since the Civil War. Small group discussions of continuities and crises in U.S. History.</td>
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<td>HIST 110H</td>
<td>History of American Women (Honors)</td>
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<td>Hours: 54 lecture</td>
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<td>Economic, social, political and cultural history of women in America, from colonial times to the present.</td>
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<td>(*UC Transfer Limit: HIST 110 and 110H combined: maximum credit, one course)</td>
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<td>HIST 113H</td>
<td>History of Western Civilization: 1600 to Present, Honors</td>
<td>4</td>
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<td>Skills Advisories: Eligibility for ENG 110 or 110H</td>
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<td>Hours: 72 lecture</td>
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<td>Critical analysis and discussion of major ideas and attitudes that have shaped the Western mind and the structure of Western civilization. Emphasis on the relation of ideas to this historical context. Western civilization from the beginning of the modern era to the present.</td>
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<td>(*UC Transfer Limit: HIST 104 and 113H combined: maximum credit, one course)</td>
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HIST 114H/ETHS 101H — The Immigrant Experience in the U.S., Honors (4) — CSU, UC*
Limitation on Enrollment: Honors Program Acceptance
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 72 lecture
Lecture and seminar. Comparative study of foreign immigrants in the United States from the mid-19th century to the present. Examines ethnic identity and nativist resistance to newcomers. Particular attention is paid to Hispanic and Asian, as compared to European, immigrants. Analyzes the social and economic conditions, as well as cultural factors that shape immigrant adjustment patterns. (*UC Transfer Limit: HIST 114/ETHS 101 and HIST 114H/ETHS 101H combined: maximum credit, one course)

MATH 117H — Elementary Statistics, Honors (4) — CSU, UC*
Prerequisites: MATH 107 or 111 with a “C” or better or qualifying score on SBCC placement exam.
Limitation on Enrollment: Honors Program Acceptance
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 72 lecture
Introductory college-level statistics for students enrolled in the Honors Program. Introduction to the design of experiments, presentation and analysis of data, measures of position, variability and centrality, laws of probability, distributions, including the binomial, normal, T, F, Chi-Square and other distributions. Sampling distributions, the Central Limit Theorem, hypotheses testing, confidence interval estimation, correlation and regression, one-way ANOVA, nonparametric statistics. (*UC Transfer Limit: MATH 117, 117H and PSY 150 combined: maximum credit, one course)

MUS 110H — Music Appreciation, Honors (4) — CSU, UC*
Limitation on Enrollment: Honors Program Acceptance
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 72 lecture
Survey of music history and literature; its elements, construction, forms, styles and composers from Medieval through contemporary periods. Guided listening to masterpieces. Concert attendance. (Primarily for non-Music majors). (*UC Transfer Limit: MUS 110 and 110H combined: maximum credit, one course)

PHIL 100H — Introduction to Philosophy, Honors (4) — CSU, UC*
Limitation on Enrollment: Honors Program Acceptance
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 72 lecture
In-depth survey of the basic problems and systems in philosophy. Special consideration given to Logic, Epistemology, Metaphysics, Ethics, Philosophy of Religion, Political Philosophy, and Aesthetics. (*UC Transfer Limit: PHIL 100 and 100H combined: maximum credit, one course)

PHIL 101H — Introduction to Ethics, Honors (4) — CSU, UC*
Limitation on Enrollment: Honors Program Acceptance
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 72 lecture
Study of the types and history of ethical theories. Analysis of the factual and normative factors involved in making moral choices. Discussion of the nature of moral standards and values and their relevance to present times. Topics include the meaning of “should,” “right,” “justice,” “blame,” “responsibility.” Examines the moral aspect of social issues such as abortion, euthanasia, the environment, drug legalization, etc. (*UC Transfer Limit: PHIL 101 and 101H combined: maximum credit, one course)

PHIL 102H — Comparative World Religions, Honors (3) — CSU, UC*
Limitation on Enrollment: Honors Program Acceptance
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
In-depth presentation and interpretation of the fundamental concepts, ideals, customs, rituals and insights of the major religious traditions. Religions discussed: Hinduism, Buddhism, Greek, Roman, Taoism, Confucianism, Shintoism, Judaism, Christianity, Islam. (*UC Transfer Limit: PHIL 102 and 102H combined: maximum credit, one course)

POLS 106H — The Presidency and American Institutions, Honors (3) — CSU, UC
Limitation on Enrollment: Honors Program Acceptance
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Study of the American Presidency as the linchpin of the American constitutional system. Introduction to
the relationships among the Presidency, Congress, courts, federal system, political parties, interest groups. Special emphasis on those values and political pressures which shape the Presidency.

**POLS 134H — Political Violence, Honors**
*(4) — CSU, UC*

*Limitation on Enrollment: Honors Program Acceptance*
*Skills Advisories: Eligibility for ENG 110 or 110H*
*Hours: 72 lecture*

Interdisciplinary study of origin, causes, dimensions and kinds of political violence, from regicide to terrorism, from revolution to war. Emphasis on theoretical studies of political violations, as well as historical, political, economic, psychological, sociological and literary perspectives on political violence.

**POLS 151H — Law and Society, Honors**
*(3) — CSU, UC*

*Limitation on Enrollment: Honors Program Acceptance*
*Skills Advisories: Eligibility for ENG 110 or 110H*
*Hours: 54 lecture*

Study of the American judicial system as a political institution. The linkage among courts, judges, lawyers and police is examined, with an emphasis on issues involving the criminal justice system. Focuses on critical legal thinking through discussion and persuasive writing on important legal concepts and principles, including major constitutional issues. *(UC Transfer Limit: POLS 151H and 151 combined: maximum credit, one course)*

**PSY 100H — General Psychology, Honors**
*(4) — CSU, UC*

*Limitation on Enrollment: Honors Program Acceptance*
*Skills Advisories: MATH 107 and Eligibility for ENG 110 or 110H*
*Hours: 72 lecture*

Survey of psychology as a science. Principles of behavior, maturation, emotions, intelligence, learning, thinking, motivation and personality are covered. Emphasizes the development of creative application and critical analyses of these behavioral principles. *(UC Transfer Limit: PSY 100, 100H and 120 combined: maximum credit, one course)*

**SOC 101H — Introduction to Sociology, Honors**
*(4) — CSU, UC*

*Limitation on Enrollment: Honors Program Acceptance*
*Skills Advisories: Eligibility for ENG 110 or 110H*
*Hours: 54 lecture*

Introduction to the study of society and everyday life, examining a diverse range of topics on human behavior and social structure. Focus on developing a sociological perspective, through theory and research, to analyze all aspects of social life. Discussion of the culture, development of the self, interaction in groups, deviance and social inequality, social institutions and social change. Examines contemporary American society with global perspective. Emphasis on reading and discussing selections from classic and contemporary texts and producing original research projects. *(UC Transfer Limit: SOC 101 and 101H combined: maximum credit, one course)*
Interdisciplinary Studies

Santa Barbara City College provides interdisciplinary instruction through courses in Science, Technology, Engineering and Mathematics, as well as in those covering various aspects of the social and behavioral sciences, oral communication, lifelong learning and self-development. Interdisciplinary courses emphasize to innovation, diversity and collaboration.

Students planning to transfer to a four-year university should meet with an SBCC academic counselor to discuss the transfer process. Because admission and major preparation requirements vary at each transfer institution, students should select their General Education option and their coursework according to their academic and transfer goal to ensure appropriate academic planning. For detailed information on transfer requirements to the University of California and California State University systems, students should meet with a counselor and refer to www.assist.org.

Department Offices
Division: Educational Programs
Alice Perez, Dean (A-118, ext. 2354)

Advisers/Counselors
Counseling Center Counselors (SS-120, ext. 2285)

Interdisciplinary Studies Courses

IS 101 — Integrative Seminar I: Lifelong Learning and Self-Development
(1) — CSU, UC
Limitation on Enrollment: Admission to Program
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 18 lecture

IS 102 — Integrative Seminar II: Oral Communication
(1) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 18 lecture

The oral communication integrative seminar exposes students to fundamental oral communication theory and provides them with opportunities to develop oral communication competency. In addition, the oral communication integrative seminar, in conjunction with the resources and personnel in the Communication Lab, serves as an incubator for student speeches to be conducted in other General Education courses.

Social Science Course

SS 101 — Introduction to the Social Sciences
(3) — CSU/UC
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture

Theme-focused survey course of the social sciences. Also serves as a foundation for further studies in a chosen major discipline. It entails the social scientific study of human development, from macro, micro and multidisciplinary perspectives and disciplines, with specific focus on exemplary disciplinary concepts, educational requirements and career opportunities.

Science, Technology, Engineering and Mathematics (STEM) Course

STEM 101 — Introduction to Science, Technology, Engineering and Mathematics
(3) — CSU/UC
Skills Advisories: Eligibility for ENG 98 and 103; proficiency in MATH 104 or 107 or 111
Hours: 54 lecture

Introduction to sciences (biology, chemistry, computer science, earth sciences, engineering, geography, mathematics, physics) and their interdependence. Discussion of scientific method through project-based activities, testing of hypotheses, systematic questioning and analysis. Basic concepts of the sciences, the role of science as a human endeavor and the power of scientific inquiry. Careers in sciences and educational planning.
Interior Design

Degree, Certificate and Awards

Associate in Arts: Interior Design
Certificate of Achievement: Interior Design
Skills Competency Award: Interior Design: Part 1
Skills Competency Award: Interior Design: Part 2

Program Description

Interior design focuses on the creation of interior environments that are both functional and pleasing. The field offers a variety of employment opportunities with interior design and architectural firms, kitchen and bath design studios, as well as with interior materials and furniture stores. A combination of education, work experience and passing the National Council for Interior Design Qualification (NCIDQ) exam is required for interior design professionals.

The SBCC Interior Design Program, offered within the Drafting/CAD Department, provides comprehensive training for entry-level interior design positions. It is a vocational program, not a transfer program. Certificated, professionally experienced instructors teach all courses.

Successful completion of each Interior Design (ID) course earns full college credit. Students who complete the required Interior Design, Art, Art History and Drafting courses and controlled electives earn a Certificate of Achievement in Interior Design. Those who also complete institutional and General Education course requirements earn the Associate in Arts Degree in Interior Design. Courses are offered with an open enrollment policy; they are open to both ID majors and non-majors.

Interior Design classes have corequisites. A corequisite is a class that must be taken at the same time or before taking the class to which it is a corequisite. DRFT 120 is a corequisite to ID 101 and 105, though it is advisable to take DRFT 120 before taking these classes. DRFT 120 must be taken before taking DRFT 124 and 130. Plan your schedule accordingly.

Faculty and Offices

Armando M. Arias del Cid, Chair (OE-24, ext. 2436)
Laura Welby, Associate Professor (OE-16A, ext. 2522)
Alan Price, Dean (A-218, ext. 3044)

AA Degree Requirements — Interior Design

Department Requirements (40-42 units)

ID 100 — Introduction to Interior Design ....................... 1
ID 100L — Introduction to Interior Design Lab ............... 1
ID 101 — Space Planning and Lighting ......................... 3
ID 103 — Historical Furniture .................................. 3
ID 104 — Materials and Installations ......................... 3
ID 105 — Kitchen and Bathroom Design .................... 3

Art Requirements

ART 140 — 2D Design: Composition and Color ............. 3
ART 141 — 3D Design: Form and Space .................... 3

Drafting Requirements

DRFT 120 — Architectural Drafting I ........................ 3
DRFT 124 — Architectural Rendering I ...................... 3
DRFT 129 — Principles of Residential Construction ........ 3
DRFT 130 — Computer-Assisted Drafting I ................. 5

Controlled Art History Electives

(Select at least three units)

ART 104 — History of Art, Renaissance to Modern or
ART 104H — History of Art, Renaissance to Modern, Honors .................. 3-4
ART 108 — History of Asian Art .............................. 3
ART 215 — Survey of Non-Western Art .................... 3

Controlled Electives (Select at least three units)

ART 120 — Fundamentals of Drawing ....................... 3
BUS 101 — Introduction to Business ......................... 3
DRFT 121 — Architectural Drafting II ...................... 3
DRFT 125 — Architectural Rendering II .................. 3
DRFT 131 — Computer Assisted Drafting II .............. 5
DRFT 132 — Computer Assisted Drafting III ............ 5
ID 290 — Work Experience in Interior Design ........... 1-4
MAT 131 — Digital Imaging I .............................. 3
Certificate of Achievement: Interior Design

Department Requirements (40-42 units)

ID 100 — Introduction to Interior Design .................. 1
ID 100L — Introduction to Interior Design Lab ............ 1
ID 101 — Space Planning and Lighting .................... 3
ID 103 — Historical Furniture ................................ 3
ID 104 — Materials and Installations .................... 3
ID 105 — Kitchen and Bathroom Design ................... 3

Art Requirements

ART 140 — 2D Design: Composition and Color .......... 3
ART 141 — 3D Design: Form and Space .................. 3

Drafting Requirements

DRFT 120 — Architectural Drafting I ...................... 3
DRFT 124 — Architectural Rendering I ................. 3
DRFT 129 — Principles of Residential Construction ....... 3
DRFT 130 — Computer-Assisted Drafting I .............. 5

Controlled Art History Electives
(Select at least three units)

ART 104 — History of Art, Renaissance to Modern or
   ART 104H — History of Art, Renaissance to
   Modern, Honors ........................................... 3-4
ART 108 — History of Asian Art ............................ 3
ART 215 — Survey of Non-Western Art .................. 3

Controlled Electives (Select at least three units)

ART 120 — Fundamentals of Drawing ...................... 3
BUS 101 — Introduction to Business ...................... 3
DRFT 121 — Architectural Drafting II .................... 3
DRFT 125 — Architectural Rendering II .................. 3
DRFT 131 — Computer Assisted Drafting II ............. 5
DRFT 132 — Computer Assisted Drafting III ........... 5
ID 290 — Work Experience in Interior Design ......... 1-4
MAT 131 — Digital Imaging I ............................. 3

Students must complete all department requirements for the certificate with a cumulative GPA of 2.0 or better.

Skills Competency Award: Interior Design Part 1

Department Requirements (14 units)

ART 140 — 2D Design: Composition and Color ........... 3
DRFT 120 — Architectural Drafting I ...................... 3
ID 100 — Introduction to Interior Design ................. 1
ID 100L — Introduction to Interior Design Lab .......... 1
ID 104 — Materials and Installations .................. 3
ID 105 — Kitchen and Bathroom Design ................ 3

Skills Competency Award: Interior Design Part 2

Department Requirements (16 units)

DRFT 120 — Architectural Drafting I ...................... 3
DRFT 130 — Computer-Assisted Drafting I ............. 5
ID 100 — Introduction to Interior Design ................. 1
ID 100L — Introduction to Interior Design Lab .......... 1
ID 101 — Space Planning and Lighting .................. 3
ID 103 — Historical Furniture .......................... 3

College Requirements

For complete information, see “Graduation Requirements” in the Catalog Index.

Planning a Program of Study

Students are advised to see a college counselor and the Department Chairperson in planning a program of study. Many factors need to be considered in the plan, including:

1. Academic goals, i.e., Certificate program, Associate Degree or Bachelor’s Degree.
2. Career and occupational goals, i.e., professional, paraprofessional, technical, occupational or trade.

Sample Interior Design Program Schedule
(Full-Time)

First Semester (Fall)

*ID 100 — Intro to Interior Design ......................... 1
*ID 100L — Intro to Interior Design Lab .................. 1
DRFT 120 — Architectural Drafting I ...................... 3
ID 104 — Materials and Installations .................. 3
ART 140 — 2D Design: Composition and Color ........ 3
ART 104, 108 or 215 —
   Controlled Art History Elective ....................... 3 or 4
Total First Semester Units ............................... 14 or 15
Second Semester (Spring)
ID 101 — Space Planning and Lighting ............................................. 3
ID 103 — Historical Furniture .......................................................... 3
DRFT 129 — Principles of Residential Construction ......................... 3
ART 141 — Fundamentals of 3D Design ........................................... 3
Total Second Semester Units ......................................................... 12

Third Semester (Fall)
ID 105 — Kitchen and Bathroom Design ........................................ 3
DRFT 130 — Comp-Assist Drafting I ............................................. 5
DRFT 124 — Architectural Rendering I .......................................... 3
ID 290 — Work Exp (or other elective) ........................................ 3-5
Total Third Semester Units ......................................................... 14-16
Total Units ............................................................................... 40-43

Sample Interior Design Program Schedule
(Part-Time)
First Semester (Fall)
*ID 100 — Intro to Interior Design ........................................... 1
*ID 100L — Intro to Interior Design Lab .................................. 1
DRFT 120 — Architectural Drafting I ........................................ 3
Total First Semester Units .......................................................... 5

Second Semester (Spring)
ART 104, 108 or 215 — Controlled Art History Elective ............... 3
ID 103 — Historical Furniture ...................................................... 3 or 4
Total Second Semester Units ......................................................... 6 or 7

Third Semester (Fall)
ID 104 — Materials and Installations ........................................... 3
DRFT 124 — Architectural Rendering I .......................................... 3
Total Third Semester Units .......................................................... 6

Fourth Semester (Spring)
DRFT 129 — Princ. of Residential Construction ............... 3
ID 101 — Space Planning and Lighting ........................................ 3
Total Fourth Semester Units ......................................................... 6

Fifth Semester (Fall)
ART 140 — 2D Design: Composition and Color ......................... 3
ID 105 — Kitchen and Bathroom Design ....................................... 3
Total Fifth Semester Units .......................................................... 6

Sixth Semester (Spring)
ART 141 — Fund. of 3D Design ...................................................... 3
DRFT 130 — Comp-Assist Drafting I ............................................. 5
Total Sixth Semester Units .......................................................... 8

Seventh Semester (Fall)
ID 290 — Work Experience (or other controlled elective) ............ 3-5
Total Seventh Semester Units ....................................................... 3-5
Total Units ............................................................................... 40-41

Honors and Awards
The Interior Design Program selects one student each year as “Outstanding Student.” Selections are made by the department faculty and are based on academic achievement and service to the college.

Program Cost and Outcome
For planning purposes, the webpage below provides information on the cost of attendance, program length (assuming a student attends full-time), financing options and historical student completion rates: www.sbcc.edu/financialaid/gainfulemployment/Interior%20Design.htm

Interior Design Courses
ID 100 — Introduction to Interior Design (1) — CSU
Corequisite: ID 100L
Skills Advisories: Eligibility for ENG 103; Math 4
Hours: 18 lecture
Overview of the interior design profession and preparation for a career in that field. How the interior designer contributes to the design team, and how the interior designer works and communicates with the client and consultants.
ID 100L — Introduction to Interior Design Lab  
(1) — CSU  
Corequisites: ID 100 (concurrent)  
Skills Advisories: MATH 4 and Eligibility for ENG 103  
Hours: 54 lab  
Understanding the responsibilities of interior designers, and developing a vocabulary to communicate and work with clients and consultants. Analyzing interior spaces and all of the “mediums” that are used. Student uses the design process to improve interior spaces.

ID 101 — Space Planning and Lighting  
(3) — CSU  
Corequisites: DRFT 120  
Skills Advisories: MATH 1 and Eligibility for ENG 103  
Hours: 54 lecture  
In this hands-on course, students study the development of interior spaces, both residential and commercial. Topics include the design process, codes, human factors, space requirements and furniture layouts. Elements of lighting design and room-by-room lighting options are taught.

ID 102 — Textiles  
(3) — CSU  
Corequisites: DRFT 120  
Skills Advisories: Eligibility for ENG 103 and proficiency in MATH 1  
Hours: 54 lecture  
Overview of the types of textiles and their composition and characteristics to aid in informed textile-related decision making by the interior design professional.

ID 103 — Historical Furniture  
(3) — CSU  
Skills Advisories: MATH 1 and Eligibility for ENG 103  
Hours: 54 lecture  
Study of furniture and interior styles, from antiquity to contemporary design. Study of the evolution of furniture design elements within the historical context of their construction and use. Includes identification of unique design elements of selected pieces of furniture.

ID 104 — Materials and Installations  
(3) — CSU  
Skills Advisories: MATH 1 and Eligibility for ENG 103  
Hours: 54 lecture  
Introduction to the materials and installation processes common to the field of interior design. Includes residential and commercial applications. Emphasizes procurement, pricing and manufacturers’ specifications.

ID 105 — Kitchen and Bathroom Design  
(3) — CSU  
Corequisites: DRFT 120  
Skills Advisories: MATH 1 and Eligibility for ENG 103  
Course Advisories: ART 140 and DRFT 124  
Hours: 54 lecture  
Study of kitchen and bathroom design in a residential setting. Thorough analysis of kitchen shapes, layouts, construction, space plans, materials, products, lighting and accessories. Forty kitchen design guidelines identified. Emphasis on plans, cabinet measurements, traffic paths and work triangles. Special emphasis on barrier-free designs in kitchens and baths.

ID 106 — Business Practices and Design  
(3) — CSU  
Corequisites: DRFT 124  
Skills Advisories: MATH 4 and Eligibility for ENG 98 and 103  
Course Advisories: ART 140  
Hours: 54 lecture  
Surveys the standard materials for interior design presentation to an actual residential or commercial client. Focuses on the development of a portfolio; verbal and graphic presentation; exploration of media common to the marketplace; and gaining proficiency in the application of business practices to interior design.

ID 290 — Work Experience in Interior Design  
(1-4) — CSU  
Prerequisites: ID 101 or 102 or 103 or 104 or 105  
Corequisites: ID 100  
Hours: 60-300 lab  
Work experience on a job/project directly related to interior design, to acquire skills and attitudes to enter and/or progress in interior design occupation. Students have been enrolled in at least one class (other than Work Experience) in their major, plus have a major-related work experience station.
Journalism

Degree, Certificate and Awards
Associate in Arts: Journalism
Associate in Arts (AA-T): Journalism for Transfer
Certificate of Achievement: Journalism
Skills Competency Award: Public Relations
  (in conjunction with the Marketing Department)
Skills Competency Award: Photojournalism
  (in conjunction with the Photography Department)

Program Description
The profession of journalism has undergone a seismic shift. Newspapers and broadcast journalism have moved online, allowing for more immediate reporting, faster news cycles and extensive public interaction. The pervasiveness of mobile devices has exponentially increased the demand for up-to-date news and led to a new class of journalists able to tell stories using a full array of digital tools.

Journalism students at Santa Barbara City College learn by doing. Through the award-winning 24/7 site, the Channels.org, students learn reporting and nonfiction story production for multiple platforms, including photography, video, audio, social media and digital media. Students also learn about news writing, interviewing, reporting, editing, freelancing, photojournalism, multimedia story production, journalism history, media law and journalism ethics. Theory courses such as mass media and documentary film round out a curriculum that prepares students to become professional journalists committed to truth telling, ethical practice and creative craftsmanship.

The department offers two Associate Degrees for transfer-bound majors, as well as both a Certificate and a Skills Competency Award in public relations. SBCC faculty work closely with our counterparts at state universities to ensure the relevance, currency and transferability of all our classes and programs.

Program Student Learning Outcomes
1. Use news judgment to select, produce and publish journalistic content.
2. Practice standard reporting and news gathering techniques.
3. Identify the best medium by which to convey journalistic content.
4. Develop journalistic content in multiple media forms.
5. Identify and practice the role and principles of a free press in a participatory democracy: commitment to accuracy, sound ethics, fairness and context.

Faculty and Offices
Patricia Stark, Chair and Channels Adviser
(CC-124, ext. 2378)
Alice Perez, Dean (A-118, ext. 2354)

Honors and Awards
The Channels was established in 1957 and has evolved as a professional-quality college news site. Today, it enjoys a national reputation for excellence. Semester after semester, The Channels has won top awards from the Associated Collegiate Press, the California Newspaper Publishers Association and the Journalism Association of Community Colleges. Individual Channels staffers also are consistently among the top award winners in regional and statewide journalism competitions.

The Channels’ award-winning work is the direct reflection of Santa Barbara City College’s insistence on excellence in updated curriculum and technology and faculty leadership. As important are the high quality and intense dedication of the hard-working men and women who join the paper’s staff.

Program Requirements:
Associate in Arts: Journalism

Department Requirements (18-19 Units)
1. Core Requirements: Three courses, 9 units
   COMM 171 — Mass Media and Society .........................3
   JOUR 101 — Reporting/Writing I ..............................3
   JOUR 121 — Channels Newspaper Lab 1 .....................3

2. Controlled Electives: 9-10 units
   JOUR 122A — The Channels: Newswriting and Editing or...4
   JOUR 123A — The Channels: Photojournalism or ...4
   JOUR 123B — The Channels: Publication Design..........4
   JOUR 135/MKT 135 — Public Relations...............3
JOUR 190/PHOT 190 — Photojournalism (Fall only)*  ........3
JOUR 271/ENG 271NF — Creative Writing: Non-Fiction (Spring only) ......................................................... 3

**College Requirements**

For complete information, see “Graduation Requirements” in the Catalog Index.

**Requirements for AA-T Degree: Journalism for Transfer**

Students majoring in journalism learn about the American news media in all forms—newspapers, magazines, television, radio and the Internet—as the basis of a liberal arts education. Students also become media “practitioners” as every journalism class offers a unique opportunity to develop publishable work for The Channels, SBCC’s award-winning student newspaper and online service. The Journalism Department is an active part of the School of Media Arts, and we offer all students the opportunity to collaborate with those from the disciplines of film, video production, multimedia, photography and graphic design.

The Associate in Arts Degree in Journalism for Transfer will provide the foundational knowledge in Journalism to students who want to earn a Baccalaureate Degree in Journalism at any of the CSU campuses.

**Degree Requirements**

Complete 60 CSU-transferable units, including General Education, major requirements and CSU-transferable electives as follows:

**I. General Education**

*Complete one of the following patterns:*

- Interssegmental General Education Transfer Curriculum “IGETC” for CSU (38 semester units)
- California State University General Education Breadth pattern (40 semester units)

**II. Major**

Complete 18-23.5 units as outlined below with a “C” or better in each course. Pass/no pass grading is not permitted in a course within a student’s major area of study. The courses completed for the major may also be used to fulfill General Education areas on the IGETC or the CSU GE Breadth.

**Required Core Course (9 units)**

COMM 171* — Mass Media and Society ......................... 3
JOUR 101 — Reporting/Writing I ................................. 3

JOUR 121 — Channels Newspaper Lab I ...................... 3
List A. Select one course from the following (3-4 units)
JOUR 122A — The Channels: Newswriting & Editing .......... 4
JOUR 135 — Public Relations or ................................. 3
MKT 135 — Public Relations ...................................... 3
JOUR 190 — Photojournalism or ................................. 3
PHOT 190 — Photojournalism ..................................... 3
JOUR 221 — Multimedia Reporting .............................. 4

List B. Select two courses from the following (6-10.5 units)

*Any CSU GE Breadth courses from two different areas within A through D or IGETC Areas 1A through 5C not used above and/or
ACCT 230 — Financial Accounting ......................... 5
ART 140 — 2D Design: Composition and Color .......... 3
ENG 270 — Introduction to Creative Writing ............... 3
FP 175 — Film and Video Production I ..................... 3
GDP 111 — Graphic Design Basics .............................. 3
MKT 203 — Marketing Communications .................... 3
PHOT 109 — Photo I ................................................. 3
PHOT 209 — Photo II ............................................... 3

*These courses fulfill an IGETC and/or CSU GE Breadth pattern requirement. Visit www.assist.org or http://articulation.sbcc.edu for a completed list of IGETC and SCU Breadth requirements.

**Program Requirements:**

**Certificate of Achievement in Journalism**

**Department Requirements (19-20 Units)**

1. **Core Requirements:** Three courses, 9 units

JOUR 101 — Reporting/Writing I ......................... 3
JOUR 121 — Channels Newspaper Lab I .................. 3
JOUR 190/PHOT — 190 Photojournalism (Fall only) .... 3

2. **Controlled Electives:** 10 units

JOUR 122A — The Channels: Newswriting and Editing or 4
JOUR 123A — The Channels: Photojournalism or 4
JOUR 123B — The Channels: Publication Design 4
JOUR 135/MKT 135 — Public Relations .................. 3
JOUR 271/ENG 271NF — Creative Writing: Non-Fiction (Spring only) ................. 3
Students must complete all department requirements for the certificate with a cumulative GPA of 2.0 or better. Candidates for a Certificate of Achievement are required to complete at least 20% of the department requirements through SBCC.

Requirements for Skills Competency Award: Public Relations

Department Requirements (15-15.5 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 171 — Mass Media and Society</td>
<td>3</td>
</tr>
<tr>
<td>COMP 139 — Social Networking for Business</td>
<td>0.5</td>
</tr>
<tr>
<td>COMP 271 — Business Communication or</td>
<td>3</td>
</tr>
<tr>
<td>COMM 161 — Communication in Organizations</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 101 — Reporting/Writing I</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 135/MKT 135 — Public Relations</td>
<td>3</td>
</tr>
<tr>
<td>MKT 101 — Introduction to Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>

Students must complete the above courses with the grade of “C” or higher or pass in all courses. Candidates for a Skills Competency Award are required to complete at least 20% of the department requirements through SBCC.

Skills Competency Award: Photojournalism

Department Requirements (13 Units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOUR 123A — The Channels: Photojournalism</td>
<td>4</td>
</tr>
<tr>
<td>JOUR 190/PHOT 190 — Photojournalism</td>
<td>3</td>
</tr>
<tr>
<td>MAT 131 — Digital Imaging I</td>
<td>3</td>
</tr>
</tbody>
</table>

Plus complete one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FP 114 — Non-Linear Editing I</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 101 — Reporting/Writing I</td>
<td>3</td>
</tr>
<tr>
<td>MAT 153 — Web Design I</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 109 — Photo I</td>
<td>3</td>
</tr>
</tbody>
</table>

Students must complete the above courses with the grade of “C” or higher or pass in all courses. Candidates for a Skills Competency Award are required to complete at least 20% of the department requirements through SBCC.

Program Cost and Outcome

For planning purposes, the webpages below provide information on the cost of attendance, program length (assuming a student attends full-time), financing options and historical student completion rates:

Journalism: Emphasis in Broadcast Journalism
www.sbcc.edu/financialaid/gainfulemployment/Journalism%20Emphasis%20in%20Broadcast%20Journalism.htm

Journalism: Emphasis in Visual Journalism
www.sbcc.edu/financialaid/gainfulemployment/Journalism%20Emphasis%20in%20Visual%20Journalism.htm

Journalism: Emphasis in Writing and Editing
www.sbcc.edu/financialaid/gainfulemployment/Journalism%20Emphasis%20in%20Writing%20and%20Editing.htm

Journalism Courses

JOUR 101 — Reporting/Writing I
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: COMP 151AB
Hours: 54 lecture

Introduction to gathering, organizing and writing news in journalistic style across multiple platforms. Includes role of the journalist and related legal and ethical issues. Students report and write based on original interviews and research to produce news content. Experiences may include covering speeches, meetings and other events, writing under deadline and using AP Style.

JOUR 121 — The Channels: Reporting/Writing
(3) — CSU
Corequisites: JOUR 101 (prior to or concurrent)
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 52 lecture

Students report and develop news stories and packages for SBCC’s student news publication. They are assigned a campus “beat” and generate news and feature articles, working on assignment from the Editorial Board. Deadlines and ethical, professional behavior stressed.

JOUR 122A — The Channels: Newswriting and Editing
(4) — CSU
Prerequisites: JOUR 121 with a minimum grade of “C”
Hours: 108 (54 lecture, 54 lab)

Students write and edit articles and multimedia packages for SBCC’s student news publication. They
edit content for grammatical correctness, accuracy, completeness and style. They write headlines, cutlines, and insert navigational hyperlinks. Deadlines and ethical, professional behavior stressed.

**JOUR 122B — The Channels: Editing and Publishing**  
(4) — CSU  
*Prerequisites: JOUR 122A*  
*Hours: 108 (54 lecture, 54 lab)*  
Students publish content for SBCC’s student news publication. They prepare all content for press and online distribution, promote via social media, and monitor the online news site. Deadlines and ethical, professional behavior stressed.

**JOUR 123A — The Channels: Photojournalism**  
(4) — CSU  
*Hours: 108 (54 lecture, 54 lab)*  
Students produce photographs and photo illustrations and write captions for *The Channels*, SBCC’s student news website. They capture images from campus arts, sporting, music and news events, and depict campus issues and personalities, working on assignment from the Editorial Board. Deadlines, ethics and professional behavior stressed.

**JOUR 123B — The Channels: Publication Design**  
(4) — CSU  
*Prerequisites: GDP 110 with a minimum grade of “C”*  
*Skills Advisories: Eligibility for ENG 98*  
*Hours: 108 (54 lecture, 54 lab)*  
Students design graphics and/or illustrations for *The Channels*, SBCC’s student news website. They create informational-interactive graphics, advertisements, illustrations and editorial cartoons. All work is completed on assignment for publication.

**JOUR 190/PHOT 190 — Photojournalism**  
(3) — CSU, UC  
*Course Advisories: PHOT 209*  
*Hours: 90 (36 lecture, 54 lab)*  
Skills and techniques of contemporary photojournalism. Topics include news and editorial sources, photographing single events and extended picture stories, and ethics. Skills include control of color, portable electronic flash, and an introduction to electronic processes and contemporary publication. Current portrait approaches in commercial, documentary and fine art photography, and portraiture are covered.

**JOUR 215A — The Channels: Section Editor**  
(1) — CSU  
*Prerequisites: JOUR 101 and 121 with a minimum grade of “C”*  
*Corequisites: (prior or concurrent) JOUR 122A and/or 123A or 123B with a minimum grade of “C”.*  
*Skills Advisories: ENG 110 or 110H*  
*Hours: 54 lab*  
Students plan, assign and coordinate coverage for specific sections of *The Channels*. Sections are news, art and entertainment, features, opinion and sports. They oversee staffing and policy issues, and serve as the public face of *The Channels* to the campus and local community.

**JOUR 215B — The Channels: Publication Editor**  
(1) — CSU  
*Prerequisites: JOUR 215A with a minimum grade of “P”*  
*Concurrent Corequisites: JOUR 122B or 123A or 123B or 221*  
*Limitation on Enrollment: Limited number of positions available. Editors must be appointed by adviser.*  
*Hours: 54 lab*  
Students plan, assign and coordinate the entire content of *The Channels* publication. They oversee reporting and photo coverage, and design, video and multimedia components. They preside over staffing and policy issues, and serve as the public face of *The Channels* to the campus and local community.

**JOUR 135/MKT 135 — Public Relations**  
(3) — CSU  
*Skills Advisories: Eligibility for ENG 110 or 110H*  
*Hours: 54 lecture*  
Practical, skills-oriented introduction to public relations for business, public and nonprofit organizations. Emphasis on writing press releases and other publicity tools, developing strategic plans, using social media for promotion and identifying techniques for media relations.
JOUR 215C — The Channels: Publication Manager
(1) — CSU
Prerequisites: JOUR 215B with a minimum grade of “P”
Concurrent Corequisites: JOUR 221
Limitation on Enrollment: A limited number of these top editorial positions are available. Enrollment must be recommended by the faculty adviser.
Hours: 54 lab

Student editors manage The Channels business operations and provide general oversight of the website and its traffic. They continue to work with the Editorial Board to plan, assign and coordinate news content.

JOUR 271/ENG 271NF — Creative Writing: Nonfiction
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture

Advanced study and practice of creative writing in non-fiction genres, including articles for publication.

JOUR 290 — Work Experience in Journalism
(1-4) — CSU
Prerequisites: JOUR 101 with a minimum grade of “B” and JOUR 121 with a minimum grade of “B” or JOUR 123A with a minimum grade of “B” and/or JOUR 123B with a minimum grade of “B”
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 60-300 lab

Work with local news publication; follow employer policies. Attend one campus-based orientation. Keep record of time worked and secure an end-of-semester employer’s evaluation. Experiential Learning consists of 60 hours per unit of unpaid work or 75 hours of paid work.
School of Justice Studies

Degrees and Certificates
Associate in Arts: Administration of Justice — Law Enforcement Emphasis
Associate in Science: Administration of Justice — Law Enforcement Emphasis
Associate in Science: Administration of Justice — Criminology Emphasis
Associate in Science: Administration of Justice — Legal Studies Emphasis
Associate in Science (AS-T): Administration of Justice for Transfer
Certificate of Achievement: Administration of Justice — Law Enforcement Emphasis
Certificate of Achievement: Administration of Justice — Criminology Emphasis
Certificate of Achievement: Administration of Justice — Legal Studies Emphasis

Program Description
The School of Justice Studies Program is designed to qualify students for entry into the field of law, law enforcement, or corrections directly from Santa Barbara City College, as well as for those who desire two years of criminal justice study for transfer to a four-year university or law school.

California certificated instructors, with criminal justice and/or legal experience, teach all School of Justice Studies courses offered at Santa Barbara City College. Full college credit is granted for each course successfully completed, and a Certificate of Achievement or Associate in Science Degree is awarded upon completion of the respective program chosen.

The criminal justice system is a diversified occupational area with available employment opportunities on the federal, state, county and local levels: These include the Federal Bureau of Investigation, Department of Homeland Security, U.S. Border Patrol, California Highway Patrol, municipal police departments, county sheriff’s departments, federal and state departments of correction, probation and parole, and forensics.

The School of Justice Studies at Santa Barbara City College currently offers three AS degrees. The AS Degree in Administration of Justice: Criminology Emphasis is designed to prepare students for a career in a law enforcement-related field (i.e., police officer, deputy sheriff, probation/parole officer) and/or to transfer to Bachelor’s degree programs in Criminology, Criminal Justice, or related fields. The AS Degree in Administration of Justice: Law Enforcement Emphasis is designed to prepare students for entry-level positions in municipal law enforcement agencies (i.e. police or sheriffs departments), and/or to transfer to Bachelor’s degree programs in Criminal Justice or related fields to prepare for federal or state-level law enforcement positions (i.e., FBI, DEA, INS, Homeland Security, etc.). The AS Degree in Administration of Justice: Legal Studies Emphasis is designed to prepare students for a career in law (i.e. legal assistant, court reporter) or a law enforcement-related field and/or to transfer to Bachelor’s degree programs in Law, Criminal Justice or related fields and/or to qualify for admission to law school.

In addition, the School of Justice Studies offers an AS-T Degree in Administration of Justice for Transfer. This degree will provide the foundational knowledge in Administration of Justice to students who want to earn a Baccalaureate Degree in Administration of Justice. This degree is in compliance with the Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code Sections 66746-66749) and guarantees admission to a California State University (CSU) campus for any community college student who completes an “associate degree for transfer,” a newly established variation of the associate degrees traditionally offered at a California community college. Upon completion of the transfer associate degree, the student is eligible for transfer with junior standing to the California State University (CSU) system. Students will be given priority consideration when applying to a particular program that is similar to the student’s community college area of emphasis. For the latest information about transfer degrees, visit www.sb1440.org.

Mission Statement
The School of Justice Studies strives to provide our students with the legal, ethical and educational background necessary to pursue a career in a criminal justice-related field and to successfully transition into a 4-year academic program.
Program Student Learning Outcomes
Upon completion of one of the School of Justice Studies programs, a student should be able to:

1. Demonstrate an understanding of the American criminal justice system and the scope of responsibilities of the various local, state and federal law enforcement agencies, beginning with arrest through parole.

2. Articulate the system's objectives, the crime problem and role expectations of criminal justice personnel, and describe the various agencies and each subsystem within the system.

3. Describe the system's responsibilities to the community, factors in crime causation, the social implications of crime and communication barriers between the system and the community.

4. Articulate the differences between the major criminological theories of the causes of crime and how those theories relate to policies toward crime and criminal behavior.


6. Demonstrate critical thinking and analytical skills acquired in the social sciences in preparation for continuance of college-level education.

Department Offices
Division: Health Technologies/Human Services
Alan Price, Dean (A-218, ext. 3044)

Faculty and Offices
Anne Redding, Chair (ECOC2-9, ext. 3071)
Thomas Mahoney, Professor (ECOC2-10, ext. 2520)

Requirements for AS Degree
Administration of Justice — Law Enforcement Emphasis
The Associate Degree will be awarded upon completion of both department and college requirements.

Department Requirements (24 units)
AJ 101 — Introduction to Administration of Justice ..........3
AJ 102 — Ethics in the Criminal Justice System ..........3

AJ 105 — Diversity, Law and Justice ..........................3
AJ 107 — Concepts of Criminal Law .........................3
AJ 111 — Criminal Investigation ..............................3
AJ 113 — Community Relations ..............................3

Plus two courses from the following:
AJ 103 — Legal Aspects of Evidence and Procedure ....3
AJ 104 — Introduction to Corrections .........................3
AJ 110 — Introduction to Forensics ...........................3
AJ 115 — Juvenile Procedures .................................3
AJ 125 — Introduction to Criminology .......................3
AJ 245 — Constitutional Law .................................3
AJ 250 — The Study of Murder ...............................3
AJ 255 — Terrorism and the Criminal Justice System ....3
AJ 260 — Women's Issues in Criminal Justice System ....3
AJ 265 — Crime and Human Behavior ......................3
AJ 271 — The Study of Evil ................................ 3

College Requirements
For complete information, see “Graduation Requirements” in the Catalog Index.

Requirements for AS Degree
Administration of Justice — Criminology Emphasis
Department Requirements (24-28 units)
AJ 101 — Introduction to Administration of Justice ..........3
AJ 102 — Ethics in the Criminal Justice System ..........3
AJ 125 — Introduction to Criminology .........................3
AJ 250 — The Study of Murder ...............................3

PSY 100 — General Psychology or
PSY 100H — General Psychology, Honors .......... 3-4
SOC 101 — Introduction to Sociology or
SOC 101H — Introduction to Sociology, Honors .......... 3-4

Plus two courses from the following:
AJ 103 — Legal Aspects of Evidence and Procedure ....3
AJ 104 — Introduction to Corrections .........................3
AJ 105 — Diversity, Law and Justice ..........................3
AJ 107 — Concepts of Criminal Law ..........................3
AJ 111 — Criminal Investigation ........................................... 3
AJ 113 — Community Relations ........................................... 3
AJ 115 — Juvenile Procedures ........................................... 3
AJ 245 — Constitutional Law ........................................... 3
AJ 255 — Terrorism and the Criminal Justice System .... 3
AJ 260 — Women’s Issues in Criminal Justice System ...... 3
AJ 265 — Crime and Human Behavior ................................ 3
AJ 271 — The Study of Evil .................................................. 3
PSY 170 — Abnormal Psychology ....................................... 4
SOC 104 — Social Psychology or PSY 175 — Social Psychology: Psychological Perspectives ............................................ 3
SOC 106 — Sociology of Deviance ....................................... 3
SOC 109 — Contemporary Social Problems ....................... 3
SOC 115 — Introduction to Social Research or PSY 200 — Research Methods and Experimental Design in Psychology ........................................... 3

College Requirements

For complete information, see “Graduation Requirements” in the Catalog Index.

Requirements for AS Degree
Administration of Justice — Legal Studies Emphasis

Department Requirements (24-26 units)

AJ 101 — Introduction to Administration of Justice ............ 3
AJ 102 — Ethics in the Criminal Justice System ............... 3
AJ 103 — Legal Aspects of Evidence and Procedure ........ 3
AJ 105 — Diversity, Law and Justice .................................. 3
AJ 107 — Concepts of Criminal Law .................................. 3
AJ 245 — Constitutional Law ........................................... 3
Plus two courses from the following:
AJ 104 — Introduction to Corrections .................................. 3
AJ 110 — Introduction to Forensics .................................... 3
AJ 111 — Criminal Investigation ....................................... 3
AJ 115 — Juvenile Procedures ........................................... 3
AJ 250 — The Study of Murder .......................................... 3
AJ 255 — Terrorism and the Criminal Justice System ........ 3

College Requirements

For complete information, see “Graduation Requirements” in the Catalog Index.

Requirements for AS-T Degree
Administration of Justice for Transfer

The Associate in Science Degree in Administration of Justice for Transfer provides students with the foundational knowledge in Administration of Justice to make a successful transition into a Baccalaureate Degree in Criminal Justice at any of the CSU campuses. To earn this degree, students must meet the following requirements:

Degree Requirements

Complete 60 CSU-transferable units, including General Education, major requirements and CSU-transferable electives as follows:

I. General Education

Complete one of the following patterns:
- Intersegmental General Education Transfer Curriculum “IGETC” for CSU (34-40 semester units)
- California State University General Education Breadth pattern (39 semester units)

II. Major

Complete 18-21 units as outlined below with a “C” or better in each course. Pass/No Pass grading is not permitted in a course within a student’s major area of study. The courses completed for the major may also be used to fulfill General Education areas on the IGETC or the CSU GE Breadth.

Required Core Courses (6 units)
AJ 101* — Introduction to Administration of Justice...3
AJ 107* — Concepts of Criminal Law ....................... 3
List A. Select any two of the following (6 units)
AJ 103 — Legal Aspects of Evidence and Procedure .................3
AJ 104* — Introduction to Corrections ..................................3
AJ 110 — Introduction to Forensics ......................................3
AJ 111 — Criminal Investigation .........................................3
AJ 113 — Community Relations .........................................3
AJ 115 — Juvenile Procedures ............................................3

List B. Select two courses from the following (6-9 units)
Any course not taken in List A and/or
AJ 102* — Ethics in the Criminal Justice System .................3
AJ 105* — Diversity, Law, and Justice ................................3
AJ 125* — Introduction to Criminology ............................3
AJ 245* — Constitutional Law ........................................3
AJ 250 — The Study of Murder ........................................3
AJ 255* — Terrorism and the 
Criminal Justice System .............................................3
AJ 260* — Women’s Issues in the 
Criminal Justice System .............................................3
AJ 265* — Crime and Human Behavior ..............................3
AJ 271* — The Study of Evil ............................................3
ACCT 230 — Financial Accounting ..................................5
CIS 101 — Introduction to Computer Information Systems ..........5
ENG 111* — Critical Thinking and Composition through Literature or
ENG 111H* — Critical Thinking and Composition through Literature, Honors ....3
ERTH 141* — Physical Geography and
ERTH 141L* — Physical Geography Laboratory or
GEOG 101* — Physical Geography and
GEOG 101L* — Physical Geography Laboratory ................4
ERTH 171 — Introduction to GIS and Maps and
ERTH 172 — GIS: Software Applications or
GEOG 171 — Introduction to GIS and Maps and
GEOG 172 — GIS: Software Applications .........................4
GEOG 102* — Human Geography .....................................3
MATH 114* — Mathematics for Liberal Arts Majors ..........3

MATH 117* — Elementary Statistics or
MATH 117H* — Elementary Statistics, Honors or
PSY 150* — Statistics for Behavioral Science ................4
MATH 120* — College Algebra .......................................4
PHIL 111* — Critical Thinking and Writing in Philosophy ........................................3
PHIL 205* — Introduction to Logic ................................3
POLS 101* — American Government ...............................3
PSY 100* — General Psychology or
PSY 100H* — General Psychology, Honors ..................3-4
SOC 101* — Introduction to Sociology or
SOC 101H* — Introduction to Sociology, Honors ...3
SOC 109* — Contemporary Social Problems .........................3
SOC 115* — Introduction to Social Research ...................3

* These courses fulfill an IGETC and/or a CSU GE Breadth pattern requirement. Visit www.assist.org or http://articulation.sbcc.edu for IGETC and CSU GE Breadth requirements.

III. CSU-Transferable Electives
Complete as many units as needed to reach a total of 60 CSU-transferable units (for a list of SBCC transferable courses to CSU, visit www.assist.org).

Additional Graduation Requirements for AS-T in Administration of Justice:
· Maintain a cumulative CSU-transferable GPA of 2.0.
· Residency Requirements: Candidates for an Associate Degree are expected to complete 15 semester units in residence at SBCC. Candidates for an Associate Degree are also expected to complete at least 20% of the department major requirements in residence at SBCC.

Requirements for Certificate of Achievement
Certificate of Achievement in Administration of Justice — Law Enforcement Emphasis
Department Requirements (24 units)
AJ 101 — Introduction to Administration of Justice ..........3
AJ 102 — Ethics in the Criminal Justice System .............3
AJ 105 — Diversity, Law and Justice .............................3

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AJ 107 — Concepts of Criminal Law ........................................3
AJ 111 — Criminal Investigation ............................................3
AJ 113 — Community Relations ...........................................3

Plus two courses from the following:
AJ 103 — Legal Aspects of Evidence and Procedure ..........3
AJ 104 — Introduction to Corrections .............................3
AJ 110 — Introduction to Forensics .................................3
AJ 115 — Juvenile Procedures ........................................3
AJ 125 — Introduction to Criminology .........................3
AJ 245 — Constitutional Law ........................................3
AJ 250 — The Study of Murder ........................................3
AJ 255 — Terrorism and the Criminal Justice System ....3
AJ 260 — Women’s Issues in Criminal Justice System ....3
AJ 265 — Crime and Human Behavior .........................3
AJ 271 — The Study of Evil ............................................3

Students must complete all department requirements for the certificate with a cumulative GPA of 2.0 or better. Candidates for a Certificate of Achievement are required to complete at least 20% of the department requirements through SBCC.

Certificate of Achievement in Administration of Justice — Legal Studies Emphasis

Department Requirements (24-26 units)
AJ 101 — Introduction to Administration of Justice ........3
AJ 102 — Ethics in the Criminal Justice System ..........3
AJ 103 — Legal Aspects of Evidence and Procedure ....3
AJ 105 — Diversity, Law and Justice ..........................3
AJ 107 — Concepts of Criminal Law ..........................3
AJ 115 — Juvenile Procedures ................................3
AJ 245 — Constitutional Law ......................................3

Plus two courses from the following:
AJ 104 — Introduction to Corrections .........................3
AJ 110 — Introduction to Forensics ..........................3
AJ 111 — Criminal Investigation ..............................3
AJ 115 — Juvenile Procedures ................................3
AJ 250 — The Study of Murder ................................3
AJ 255 — Terrorism and the Criminal Justice System ....3
AJ 260 — Women’s Issues in Criminal Justice System ....3
AJ 265 — Crime and Human Behavior .........................3
AJ 271 — The Study of Evil ........................................3

Students must complete all department requirements for the certificate with a cumulative GPA of 2.0 or better. Candidates for a Certificate of Achievement are required to complete at least 20% of the department requirements through SBCC.
BLAW 101 — Business Law .................................................. 4
POLS 151 — Law and Society or
   POLS 151H — Law and Society, Honors ...................... 3-4

Students must complete all department requirements for the certificate with a cumulative GPA of 2.0 or better.

Preparation for Transfer
For assistance with courses required for transfer to four-year institutions, students are encouraged to contact the Transfer Center (ext. 2547), or the Academic Counseling Center (ext. 2285).

Work Experience
A work/volunteer experience program, in cooperation with various criminal justice agencies, offers you an opportunity to gain first-hand knowledge in the field. You will be applying what you learn in classes in an on-the-job environment, making you more valuable to your future employer—and your college experience more meaningful to you.

Advising
In addition to the college counselor for the School of Justice Studies and the Career Center, the School of Justice Studies adviser is available to students who are planning academic programs and investigating career goals. For further information on the School of Justice Studies, contact Anne Redding, Room ECOC2-9, (805) 965-0581, ext. 3071.

Program Cost and Outcome
For planning purposes, the following webpages provide information on the cost of attendance, program length (assuming a student attends full-time), financing options and historical student completion rates:

Administration of Justice: Legal Studies Emphasis
www.sbcc.edu/financialaid/gainfulemployment/Administration%20of%20Justice%20Legal%20Studies%20Emphasis.htm

Administration of Justice: Criminology Emphasis
www.sbcc.edu/financialaid/gainfulemployment/Administration%20of%20Justice%20Criminology%20Emphasis.htm

Administration of Justice: Law Enforcement Emphasis
www.sbcc.edu/financialaid/gainfulemployment/Administration%20of%20Justice%20Law%20Enforcement%20Emphasis.htm

School of Justice Courses

AJ 101 — Introduction to the Administration of Justice
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture

Comprehensive introduction to the history, functions, structures, processes and interactions of the basic components of the criminal justice system. Required course for majors.

AJ 102 — Ethics in the Criminal Justice System
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: AJ 101
Hours: 54 lecture

Examination of the types and history of ethical theories and development of moral and ethical behavior for criminal justice practitioners. Students learn how to analyze an ethical dilemma and apply this process to contemporary law enforcement issues.

AJ 103 — Legal Aspects of Evidence and Procedure
(3) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture

Covers the development, philosophy and constitutional basis of evidence and procedure. Legal considerations affecting arrest, search and seizure; kinds and degrees of evidence and rules governing admissibility; judicial decisions interpreting individual rights and case studies; the major stages of criminal justice processes.

AJ 104 — Introduction to Corrections
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture

Examines major types of crime and criminal behavior, characteristics of offenders, factors that contribute to crime and delinquency, and the role of probation and parole. Analyzes historical changes in crime control, treatment and punishment.
AJ 105 — Diversity, Law and Justice  
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 110 or 110H*  
*Hours: 54 lecture*  
Legal perspectives on cultural diversity in the U.S., including race, ethnicity, gender, class, religion, disability and sexual orientation. Examines historical and contemporary laws cases that have shaped how these groups interact within society. Analysis of the role the criminal justice system plays in determining the status of minority groups and their relationship to the law.

AJ 107 — Concepts of Criminal Law  
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 110 or 110H*  
*Hours: 54 lecture*  
Historical development and philosophy of law and constitutional provisions; definitions, classifications of crimes, and their application to the system of administration of justice; legal research, study of case law, methodology and concepts of law as a social force.

AJ 110 — Introduction to Forensics  
(3) — CSU  
*Skills Advisories: Eligibility for ENG 110 or 110H*  
*Hours: 54 lecture*  
Use of science and technology to investigate and establish facts in courts of law, with emphasis on examination and analysis of physical evidence. Explores the history of forensics, crime scene management, and various scientific techniques used to analyze the evidentiary value of items found during an investigation.

AJ 111 — Criminal Investigation  
(3) — CSU  
*Skills Advisories: Eligibility for ENG 110 or 110H*  
*Hours: 54 lecture*  
Fundamentals of investigation; techniques of crime scene search and recording; collection and preservation of evidence; modus operandi processes, sources of information and follow-up investigation.

AJ 113 — Community Relations  
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 110 or 110H*  
*Hours: 54 lecture*  
Examines the relationship between communities and the justice system in addressing crime and conflict. Emphasis on the challenges and prospects of administering justice within a diverse multicultural population. Topics include the consensus and conflicting values in cultures, religion and law.

AJ 115 — Juvenile Procedures  
(3) — CSU  
*Skills Advisories: Eligibility for ENG 110 or 110H*  
*Hours: 54 lecture*  
Examines the origin, development and organization of the American juvenile justice system. It explores theories that focus on juvenile law, courts and processes, and the constitutional protections extended to juveniles administered in the American justice system.

AJ 125 — Introduction to Criminology  
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 110 or 110H*  
*Hours: 54 lecture*  
Examines the nature, causes and patterning of criminality, with emphasis on the theoretical and methodological issues encountered in research. Explanations of crime and crime control policies are critically examined. Evidence of linkages among social conflicts and inequalities, criminal laws and enforcement practices, and social deviance and control are reviewed.

AJ 245 — Constitutional Law  
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 110 or 110H*  
*Hours: 54 lecture*  
Critical study, analysis and evaluation of landmark cases of the U.S. Supreme Court. The logic and fallacies of the interpretive reasoning processes utilized by the court in reaching its decisions. Emphasis on the protection of individual rights and privileges contained in the Bill of Rights, and an understanding of the formal and informal thinking processes applied to judicial interpretation.

AJ 250 — The Study of Murder  
(3) — CSU  
*Skills Advisories: Eligibility for ENG 110 or 110H*  
*Hours: 54 lecture*  
Historical and contemporary analysis of criminal homicide by examining the nature and extent of murder, including serial murder and sex crime-related murder.
AJ 255 — Terrorism and the Criminal Justice System  
(3) — CSU  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture  
Historical perspectives and current terrorist threats and challenges; major terrorist groups and their strategies; limits on military and civilian authority; future trends and law enforcement responses.

AJ 260 — Women’s Issues in the Criminal Justice System  
(3) — CSU  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture  
Women and their involvement in the criminal justice system. Students learn about gender-based differences related to law and justice, with a study focus on women as offenders, victims, justice officials and change agents.

AJ 265 — Crime and Human Behavior  
(3) — CSU  
Skills Advisories: Eligibility for ENG 110 or 110H  
Course Advisories: AJ 101  
Hours: 54 lecture  
Examines the application of psychology to crime and the criminal justice system. Analysis includes areas of intersection of the fields of psychology and criminal justice, the role of psychologists in the criminal justice system, the use of psychological concepts in court, and the psychology of criminal behavior.

AJ 271 — The Study of Evil  
(3) — CSU  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture  
Examination of legal and societal interest in defining, identifying and punishing “evil” people and their actions. Identifies cultural contexts of evil from sociological, psychological, philosophical, biological and neuroscience perspectives. Focus on historical persons and events, with analysis of the various definitions and causes of evil. Analyzes how societies respond to such behaviors, and how the C.J. system is impacted.

AJ 290 — Work Experience in Administration of Justice  
(3) — CSU  
Hours: 180-225 lab  
See “Work Experience” section of this Catalog.

P.O.S.T. Course Offerings  
The following courses carry a limitation on enrollment that requires completion of P.O.S.T. Law Enforcement Academy. Call Melissa Moreno, Dean, Educational Programs, (805) 683-8282, for more information.

AJP 101 - AJP 156 — POST Topics for Peace Officers  
(0.5-4.7) — CSU  
Limitation on Enrollment: Completion of basic Peace Officers Standards and Training (P.O.S.T.) Law Enforcement Academy  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 9-80 (9-45 lecture, 8-69 lab)  
Special topics courses pertaining to criminal justice:  
AJP 101 c — Stalking: A Law Enforcement Perspective  
AJP 102 c — Field Training Course  
AJP 103 c — Police Baton/Weaponless Defense  
AJP 104 a, b, c — CPR/First Aid  
AJP 105 c — Advanced Verbal Judo  
AJP 106 c — Radar Operator Course  
AJP 107 c — Interview and Interrogation Techniques  
AJP 108 c — Survival Shooting Techniques  
AJP 109 c — Patrolling by Mountain Bike  
AJP 110 c — Driving Under the Influence  
AJP 111 c — Psychology of Survival  
AJP 112 c — Basic Narcotics Investigation  
AJP 113 c — Jail Operations Training  
AJP 114 c — Preparation of Search Warrants and Warrant Service  
AJP 115 c — Emergency Management  
AJP 116 c — Prison Gangs  
AJP 117 c — White Collar Crime  
AJP 118 c — Expandable Baton and Street Gang Awareness  
AJP 119 c — Leadership and Supervision Course
AJP 120 c — Courtroom Testimony
AJP 121 c — Advanced Officer Training I
AJP 122 — Advanced Officer Training II
AJP 123 — Advanced Officer Training III
AJP 124 — Field Officer Trainer Course
AJP 125 — Footwear and Tire Impression Evidence
AJP 126 — Aviation Bureau Operations and CPR Update
AJP 127 — Advanced Footwear Impression Evidence
AJP 128 — Basic Narcotics Operations
AJP 129 — Radar Operator – Laser (Prerequisite: AJ 206C)
AJP 130 — Basic Criminal Investigation
AJP 131 — Gangs — CalGang Computer System
AJP 132 — Gangs — CalGang Computer System Query
AJP 133 — Tactical Communication
AJP 134 — Crowd Control
AJP 135 — Bomb Squad and Weapons of Mass Destruction Overview
AJP 136 — Critical Incident Response
AJP 137 — Arrest and Control
AJP 138 a — Arrest and Control Techniques I
AJP 138 b — Arrest and Control Techniques II (Prerequisite: AJ 238a)
AJP 138 c — Arrest and Control Techniques III (Prerequisite: AJ 238b)
AJP 139 — Drug Abuse Recognition
AJP 140 — Immediate Deployment/Crisis Entry
AJP 141 — Tactical Response to School and Community Violence
AJP 142 — Preventing Racial Profiling
AJP 143 — Tactical Commander
AJP 144 — Basic SWAT
AJP 145 — Basic SWAT Team Leader
AJP 146 — Defensive Tactics Instructor
AJP 147 — Basic Sniper/Observer Training
AJP 148 — K-9 SWAT
AJP 149 — Tactical Dispatcher
AJP 151 — Advanced SWAT Team Leader
AJP 152 — Advanced Sniper
Learning Resources Center

The newly renovated Cartwright Learning Resources Center assists students with class-related computer access and media assignments and with tutorial support, including the Tutoring Commons, the Writing Center and the Computer Commons, which provide on-site tutorial support to students using our computers. We also offer learning skills and writing skills workshops throughout the semester and several self-paced Anthropology courses.

We provide CRLA-certified tutor training for academic and computer-support tutors. The CLRC has a website, www.sbcc.edu/learningresources, or you may select "Student Services" from the SBCC home page. The website provides links to excellent learning resources, as well as maps and schedules for services on and off campus.

The Cartwright Learning Resources Center is open Monday through Thursday, 8 a.m. to 8 p.m., and Friday, 8 a.m. to 4 p.m. Summer Session hours are Monday through Friday, 8 a.m. to 4 p.m. Call ext. 2670.

Faculty and Staff

Vandana Gavaskar, Director of Learning Support Services (LRC-109, ext. 2673)
Barb Freeman, CLRC Supervisor (LRC-123, ext. 2666)
Julio Martinez, Media Technician (LRC-115, ext. 2669)
Jason Levy, Tutorial Center Coordinator (LRC-121, ext. 2667)
Therese Schweidler, Computer Lab Teaching Asst. (LRC-114, ext. 2658)
Regina Reese, Computer Lab Teaching Asst. (LRC-114, ext. 2658)
Violet Casillas, Office Asst. (Learning Assistance/Check-in Counter, ext. 2670)
Beth Taylor-Schott, Lab Teaching Asst., Writing Center (LRC-122, ext. 2671)
Ivonne Ornelas Limon, CLRC Senior Office Asst., Writing Center (Writing Center, ext. 2663)

Cartwright Learning Resources Center Service Areas

Gateway Center: Offers concentrated subject tutoring for classes in a variety of subjects. A tutor is assigned to one class section and works with the instructor and students during class as well as during tutoring sessions in the Cartwright Learning Resources Center and the Gateway Center. The Gateway Program centers around these subject areas:

Computer-Assisted Instructional (CAI) Labs: Supports in-class use of instructional technology. By reservation only.

Computer Commons: Provides general access to Macintosh and PC computers and tutor support for academic computer applications, including course-specific software and word processing. One-to-one tutoring appointments are also available.

Learning Assistance/Check-in Counter: Provides access to the Computer Commons, the multimedia library for a variety of subjects, as well as materials for the ANTH 121-126 classes. The Check-In Counter staff also provide instructional guidance regarding the use of LRC academic resources.

Learning Skills Workshops: Offer instructional support in essential skills such as time-management, learning styles, test-taking, math confidence and stress management. See www.sbcc.edu/clrc/workshops.php.

Tutoring Commons: Provides tutoring in a wide variety of subjects, one-to-one or in small groups.

Writing Skills Workshops: Offer instruction and practice in academic research, from narrowing topics to gathering and documenting resources, using MLA or APA format, or managing writing-related anxiety. See www.sbcc.edu/clrc/workshops.php.

Tutorial Center: Coordinates a large number of tutorial services, including free small-group and individual tutoring sessions for the general student population, and tutor orientation training.

Writing Center: Offers assistance with pre-writing, organization, thesis and content development and general sentence-level mechanics, as well as online resources through the OWL (online writing library), available via the CLRC website, www.sbcc.edu/clrc/writing_center/index.php.
Course Description

Tutorial
TUT 199 — Tutor Training
(1 unit) — CSU

Limitation on Enrollment: Must have faculty sponsorship
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: Two hours per week for five weeks, totaling 10
hours per semester, and 15 to 25 lab hours per semester.

Requires faculty sponsorship of tutors so they
are linked to classroom instruction. Tutors receive
instruction in learning styles, communication skills,
problem-solving strategies, teaching strategies,
student services (to make appropriate referrals),
campus policies, etc. Course is certified by the
College Reading and Learning Association, which is
Liberal Arts and Sciences

Degrees
Associate in Arts Degree: Liberal Arts and Sciences:
  Arts and Humanities Emphasis
Associate in Arts Degree: Liberal Arts and Sciences:
  Science and Mathematics Emphasis
Associate in Arts Degree: Liberal Arts and Sciences:
  Social and Behavioral Sciences Emphasis
Associate in Arts Degree in Liberal Arts: Emphasis in
  Bio-Medical Sciences (see Biological Sciences)

Program Description
The Liberal Arts and Sciences degree is designed for students who wish to have a broad knowledge of arts and sciences, while building a foundation within an “area of emphasis.” This degree can be a good option for students who may need to explore possibilities before committing themselves to a major prior to transferring to a four-year university or for students who may not be planning to transfer but wish to earn a degree in a particular area of study that interests them.

Students planning to transfer to a four-year university are cautioned that this degree may not meet all of the requirements for transfer into a particular major. However, through careful educational planning with an SBCC academic counselor, this degree would offer a solid foundation in the transfer process. Because admission and major preparation requirements vary at each transfer institution, students should select their General Education option and their coursework for the Associate Degree in consultation with an SBCC academic counselor to ensure appropriate academic planning. For detailed information on transfer requirements to the University of California and California State University systems, students should meet with a counselor and refer to www.assist.org.

Department Offices
Division: Educational Programs Support
Ben Partee, Dean (SS-260, ext. 2202)

Advisers/Counselors
Counseling Center Counselors (SS-120, ext. 2285)

AA Degree: Liberal Arts and Sciences
The Associate Degree will be awarded upon completion of department and Associate Degree graduation requirements.

Arts and Humanities Emphasis
By completing the Liberal Arts and Sciences—Emphasis in Arts and Humanities degree, students will be exposed to an interdisciplinary pattern of coursework essential to the understanding of the contemporary world, its people and its cultures. Students will survey, analyze and interpret key philosophical, historical, literary, aesthetic and cultural works produced over the course of human history to better understand social and historical life, as well as human existence, human meaning and human creativity. Students will also practice forms of creative, intellectual and cultural expression. Common majors within the Arts and Humanities Emphasis include, but are not limited to, English, Ethnic Studies, Film Studies, Fine Arts, Foreign Languages, History, Humanities, Music, Philosophy and Theatre Arts.

Department Requirements
Students must complete 18 units from the following courses with a “C” or better in each course. Pass/No Pass grading is not permitted in a course within a student's major area of study. Students are strongly advised to meet with a counselor to ensure appropriate course selection for their educational goal.

American Sign Language 101, 102, 103, 104, 125
Arabic 101, 102
Art 101, 102A, 102B, 103 or 103H, 104 or 104H, 106, 108, 109, 110, 111, 112, 113, 114, 120, 130, 132, 210, 211, 215, 216
Asian-American Studies 101, 102
Black Studies 102, 102H, 111, 113
Chicano Studies 101, 113, 114, 115, 130, 131, 160
Chinese 101, 102, 103
Early Childhood Education 115
English 111, 111H, 200, 221, 222, 222H, 225 or, 226 or 226H, 231, 232, 236, 237, 240, 241, 242, 251, 261, 262
Environmental Studies 112
Ethnic Studies 101 or 101H, 103, 117, 121, 122
Film Studies 101 or 101H, 104, 105, 107, 110, 111, 112A, 112B, 113, 114, 115, 116, 117, 118, 119, 120, 121
French 101, 102, 103, 104, 132, 142
German 101, 102, 103, 104
Hebrew 101, 102
History 101, 102 or 102H, 103, 104 or 113H, 107, 108, 110 or 110H, 111, 112, 114 or 114H, 115, 120, 121, 122, 127, 133, 134, 135, 137, 138
Interior Design 103
Italian 101, 102, 103, 104, 150, 160
Japanese 101, 102, 103, 104
Korean 101, 102
Latin 101, 102
Native American Studies 105, 112, 113
Philosophy 100 or 100H, 101 or 101H, 102 or 102H, 200, 201, 203, 204, 207A
Physical Education 250
Political Science 132
Psychology 135
Spanish 101, 102, 103, 104, 132, 133, 134, 135, 136, 138, 139, 146, 147, 150, 160, 200

Science and Mathematics Emphasis
By completing the Liberal Arts and Sciences—
Emphasis in Science and Mathematics Degree, students will be exposed to wide range of coursework to achieve a foundational understanding of mathematics and the natural sciences. Students will survey, analyze and interpret concepts, theories and methodologies as they relate to the natural sciences and mathematics and how this knowledge has shaped the course of human development over the ages. Additionally, students will develop critical thinking skills, mathematical and quantitative reasoning skills and research methodology.

Common university majors within the Science and Mathematics Emphasis include, but are not limited to, Astronomy, Astrophysics, Biochemistry, Biology, Chemical Physics, Chemistry, Earth Sciences, Environmental Studies, Geography (Physical), Geological Sciences, Mathematics and Physics.

Department Requirements
Students must complete 18 units from the following courses with a "C" or better in each course and must take at least one course in science and at least one course in mathematics. Pass/No Pass grading is not permitted in a course within a student’s major area of study. Students are strongly advised to meet with a counselor to ensure appropriate course selection for their educational goal.

Science
Anthropology 101 or 101H, 101+101L or 101H+101L
Biology 100, 101, 102, 103, 104, 104+105, 110 or 110H, 112, 112+141, 120, 122, 122+123, 124, 125, 126, 140, 140+141, 142, 144, 150, 161, 172
Bio-Medical Sciences 100, 107, 108, 118, 127, 136, 146, 157
Botany 100, 121, 122, 123, 129
Chemistry 101, 104, 155, 156, 211, 211+221, 212, 212+222
Earth Sciences 101 or 101H, 101+102 or 101H+102, 106, 111 or 111H, 111+111L or 111H+111L, 112, 112+112L, 113, 113+111L, 113+112L, 114, 114+111L, 114+112L, 115, 115+115L, 116, 122, 125, 126, 141, 141+141L, 151, 151+151L, 152, 152+152L
Environmental Horticulture 110
Environmental Studies 110, 110+111, 115, 115+115L, 116
Geography 101, 101+101L, 152, 152+152L
Physical Science 103, 107
Physics 101, 101+101L, 102, 105, 106, 110, 111, 121, 122, 123
Psychology 110
Zoology 110, 122, 122+123, 124, 137, 140

Mathematics: At least one course of the following
Computer Science 108
Mathematics 108, 114, 117 or 117H, 120, 130, 131, 137, 138, 150, 160, 200, 210, 220
Psychology 150
Social and Behavioral Sciences Emphasis
By completing the Liberal Arts and Sciences—Emphasis in Social and Behavioral Sciences Degree, students will be exposed to a wide range of coursework to achieve an understanding of human behavior and human interaction in the social and physical environment. Students will survey, analyze, and interpret concepts, theories, and methodologies to cultivate an understanding of human beings and the societies and cultures they create. Common majors within the Social and Behavioral Sciences Emphasis include, but are not limited to, Anthropology, Criminal Justice, Economics, Ethnic Studies, Geography (Cultural), Global Studies, History, International Relations, Political Science, Psychology, Social Science, and Sociology.

Department Requirements
Students must complete 18 units from the following courses with a “C” or better in each course. Pass/No Pass grading is not permitted in a course within a student’s major area of study. Students are strongly advised to meet with a counselor to ensure appropriate course selection for their educational goal.
Administration of Justice 101, 102, 104, 105, 107, 125, 245, 255, 260, 265, 271
Anthropology 102 or 102H, 103, 104, 109, 110, 113, 121, 122, 123, 124, 125, 126
Asian-American Studies 101, 102
Black Studies 101, 102 or 102H, 103
Chicano Studies 101, 102, 103, 121
Communication 101, 151, 171, 288, 289
Early Childhood Education 102, 120, 132
Earth Sciences 142
Economics 101, 102, 106, 108
Environmental Studies 112
Ethnic Studies 101 or 101H, 103, 107, 109, 110, 120, 121, 122
Geography 102, 104, 105, 106
Global Studies 101, 102
History 101, 102 or 102H, 103, 104 or 113H, 107, 108, 110 or 110H, 111, 112, 114 or 114H, 115, 120, 121, 122, 127, 133, 134, 135, 137, 138
Native American Studies 101, 102, 103, 104, 105

Political Science 101, 104, 106H, 107, 110, 121, 122, 126, 131, 132, 134H, 136, 151 or 151H
Psychology 100 or 100H, 106, 115, 120, 125, 130, 135, 140, 145, 170, 175, 200
Social Science 101
Sociology 101 or 101H, 103, 104, 106, 109, 110, 113, 115, 118
Spanish 135, 136, 138, 139

Associate Degree Graduation Requirements
(1) Complete all department requirements with a “C” or better or “P” in each course (at least 20% of the department requirements must be completed through SBCC); (2) Complete one of the following three General Education options: OPTION 1: SBCC General Education Requirements (Areas A-D) and Institutional Requirements (Area E) and Information Competency Requirement (Area F) OR OPTION 2: IGETC Pattern OR OPTION 3: CSU GE Breadth Pattern; (3) Complete a total of 60 degree-applicable units (SBCC courses numbered 100 and higher); (4) Maintain a cumulative GPA of 2.0 or better in all units attempted at SBCC; (5) Maintain a cumulative GPA of 2.0 or better in all college units attempted; and (6) Complete 15 units through SBCC.
Liberal Studies

Degrees

Associate in Arts Degree: Liberal Studies:
   Emphasis in Education

Associate in Arts Degree (AA-T):
   Elementary Teacher Education for Transfer

Emphasis in Education Program Description
The Liberal Studies: Emphasis in Education Degree prepares students to transfer to a Liberal Studies—Teacher Education bachelor’s degree program. The degree is intended to provide students with options to select appropriate coursework to meet lower-division requirements of the Liberal Studies program of the four-year institution they are planning to attend. Articulation agreements for most Liberal Studies—Teacher Education programs offered at the University of California and the California State University systems are available on the ASSIST website at www.assist.org.

Liberal Studies—Teaching Education programs are different at each four-year institution. Therefore, students must select their courses for the Associate Degree in consultation with an SBCC academic counselor to ensure they satisfy the lower-division preparation for the Liberal Studies program of the four-year institution to which they are planning to transfer.

The Liberal Studies: Emphasis in Education Degree at Santa Barbara City College is an interdisciplinary program that provides students with a foundation of knowledge in the areas of English composition, critical thinking, oral communication, physical and life sciences, arts and humanities, and social sciences. Through this program, students acquire a breadth of knowledge across multiple disciplines, explore how knowledge across disciplines can be connected, analyze and evaluate ideas using the tools of critical thinking, and demonstrate effective communication skills in reading, writing, listening and speaking. Since Liberal Studies is a “college-wide” interdisciplinary Associate Degree program, it does not have departmental affiliation. Inquiries regarding the Liberal Studies program should be directed to an academic counselor or the Dean, Educational Programs—Student Development and Counseling.

Elementary Teacher Education Program
Associate in Arts for Transfer Degree
The college also offers an AA-T Degree in Elementary Teacher Education for Transfer. This degree also provides the foundational knowledge to students who want to earn a Baccalaureate Degree in Liberal Studies and a Multiple Subject Teaching Credential to prepare them for elementary school teaching (K-6). This degree is in compliance with the Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code Sections 66746-66749) and guarantees admission to a California State University (CSU) campus for any community college student who completes an “associate degree for transfer,” a newly established variation of the associate degrees traditionally offered at a California community college. Upon completion of the transfer associate degree, the student is eligible for transfer with junior standing into the California State University (CSU) system. Students will be given priority consideration when applying to a particular program that is similar to the student’s community college area of emphasis. For more information on transfer degrees, visit www.sb1440.org.

Department Offices
Division: Educational Programs Support
Ben Partee, Dean (SS-260, ext. 2202)

Advisers/Counselors
Counseling Center Counselors (SS-120, ext. 2285)

AA Degree: Liberal Studies:
Emphasis in Education
The Associate Degree will be awarded upon completion of Department and Associate Degree Graduation Requirements.

Department Requirements (31-38 units)
Core Requirements:
Introduction to Teaching: Complete the following course:
ED 101 — Introduction to Teaching and Learning
In K-12 Contemporary Classrooms............................ 3
Oral Communication: Complete one of the following courses:
COMM 121 — Interpersonal Communication or COMM 121H — Interpersonal Communication, Honors or COMM 131 — Fundamentals of Public Speaking or COMM 131H — Fundamentals of Public Speaking, Honors or COMM 141 — Small Group Communication or COMM 161 — Business and Professional Communication or COMM 235* — Argumentation and Debate

English Composition: Complete one of the following courses:
ENG 110 — Composition and Reading or ENG 110H — Composition and Reading, Honors

Critical Thinking: Complete one of the following courses:
ENG 111 — Critical Thinking and Composition Through Literature or ENG 111H — Critical Thinking and Composition Through Literature, Honors or PHIL 111 — Critical Thinking and Writing in Philosophy or PHIL 205 — Introduction to Logic or COMM 235* — Argumentation and Debate

Section 2. Social Sciences: Select two courses from the following (6-8 units):
ANTH 103, BLST 101, ECE 102, 120, ERTH 142/GEOG 105, 102, HIST 101+, 102+ or 102H+, 107+, 108+, POLS 101, PSY 100 or 100H, 140, 145, SOC 101 or 101H, 104

Section 3. Arts and Humanities: Select two courses from the following (6-8 units):
ART 101, 103, 104 or 104H, CHST 115, 131, ECE 115, ENG 221, 222 or 222H, 225, 226 or 226H, 231, 232, HIST 101+, 102+ or 102H+, 107+, 108+, MUS 110 or 110H, 118, PE 250, PHIL 100 or 100H, 101 or 101H, 102 or 102H, 200, 201, TA 103, 111

Foreign Language

+ HIST 101, 102 or 102H, 107, 108 can only satisfy one section (section 2 or section 3), not both.

Recommended Courses:
ANTH 104, COMP 101, ECON 101 or 102, ED 291, 295, HE 101 or 102, MATH 108, SPAN 101

Associate Degree Graduation Requirements
(1) Complete all department requirements with a “C” or better or “P” in each course (at least 20% of the department requirements must be completed through SBCC); (2) Complete one of the following three General Education options: OPTION 1: SBCC General Education Requirements (Areas A-D) and Institutional Requirements (Area E) and Information Competency Requirement (Area F) OR OPTION 2: IGETC Pattern OR OPTION 3: CSU GE Breadth Pattern; (3) Complete a total of 60 degree-applicable units (SBCC courses numbered 100 and higher); (4) Maintain a cumulative GPA of 2.0 or better in all units attempted at SBCC; (5) Maintain a cumulative GPA of 2.0 or better in all college units attempted; and (6) Complete 15 units through SBCC.

Requirements for AA-T Degree—Elementary Teacher Education for Transfer
The field of teacher education covers a wide range of topics. The major is designed to give students exposure to basic information in the discipline and provide the opportunity to focus on the areas that best suit their individual needs. Students should consult with a departmental adviser and/or counselor when...
choosing both controlled and general electives in order to develop a program of study that is best suited to their specific needs. For example, requirements for the baccalaureate degree in Liberal Studies vary from one institution to another. It is, therefore, essential to become familiar with the requirements of the institution a student plans to attend.

The Associate in Arts Degree in Elementary Teacher Education for Transfer will provide the foundational knowledge to students who want to earn a Baccalaureate Degree in Liberal Studies and a Multiple Subject Teaching Credential to prepare them for elementary school teaching (K-6).

**Degree Requirements**
Complete 60 CSU-transferable units including General Education, major requirements and CSU-transferable electives as follows:

### I. General Education

*Complete one of the following patterns:*
- Intersegmental General Education Transfer Curriculum “IGETC” for CSU (38 semester units)
- California State University General Education Breadth pattern (40 semester units)

### II. Major
Complete 51-59 units as outlined below with a “C” or better in each course. Pass/No Pass grading is not permitted in a course within a student’s major area of study. The courses completed for the major may also be used to fulfill General Education areas on the IGETC or the CSU GE Breadth.

**Required Core (45-52 units)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 100*</td>
<td>Concepts of Biology or</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 140*</td>
<td>Principles of Biology and Biology Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>COMM 131*</td>
<td>Fundamentals of Public Speaking or</td>
<td>3</td>
</tr>
<tr>
<td>COMM 131H*</td>
<td>Fundamentals of Public Speaking, Honors</td>
<td>3</td>
</tr>
<tr>
<td>ECE 120*</td>
<td>Child Growth and Development for Educators</td>
<td>3</td>
</tr>
<tr>
<td>ED 101</td>
<td>Intro to Teach and Learning in K-12 Contemp Classroom</td>
<td>3</td>
</tr>
<tr>
<td>ED 291</td>
<td>Practicum in Teaching</td>
<td>2</td>
</tr>
<tr>
<td>ENG 110*</td>
<td>Composition and Reading or</td>
<td>3</td>
</tr>
<tr>
<td>ENG 110H*</td>
<td>Composition and Reading, Honors</td>
<td>3</td>
</tr>
<tr>
<td>ENG 221*</td>
<td>Survey of British Literature or</td>
<td>3</td>
</tr>
<tr>
<td>ENG 222*</td>
<td>Survey of British Literature or</td>
<td>3</td>
</tr>
<tr>
<td>ENG 225*</td>
<td>American Literature or</td>
<td>3</td>
</tr>
<tr>
<td>ENG 226*</td>
<td>American Literature or</td>
<td>3</td>
</tr>
<tr>
<td>ENG 226H*</td>
<td>American Literature, Honors or</td>
<td>3</td>
</tr>
<tr>
<td>ENG 231*</td>
<td>World Literature or</td>
<td>3</td>
</tr>
<tr>
<td>ENG 232*</td>
<td>World Literature</td>
<td>3</td>
</tr>
<tr>
<td>ERTH 111*</td>
<td>Dynamic Earth-Physical Geol and</td>
<td>3</td>
</tr>
<tr>
<td>ERTH 111L*</td>
<td>Dynamic Earth-Physical Geol Lab or</td>
<td>1</td>
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<td>ERTH 111H*</td>
<td>Dynamic Earth-Phys Geol, Honors</td>
<td>4</td>
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<tr>
<td>ERTH 111L*</td>
<td>Dynamic Earth-Physical Geol Lab or</td>
<td>1</td>
</tr>
<tr>
<td>ERTH 112*</td>
<td>History of the Earth and</td>
<td>3</td>
</tr>
<tr>
<td>ERTH 112L*</td>
<td>Historical Geology Lab</td>
<td>1</td>
</tr>
<tr>
<td>GEOG 104*</td>
<td>World Regional Geography</td>
<td>3</td>
</tr>
<tr>
<td>HIST 101*</td>
<td>History of the U.S. to 1865</td>
<td>3</td>
</tr>
<tr>
<td>HIST 107*</td>
<td>World Civilization, Beginning-1550</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108*</td>
<td>Math for Elementary Teachers</td>
<td>4</td>
</tr>
<tr>
<td>PHSC 103*</td>
<td>Conceptual Physics and Concepts Physics Lab or</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 101*</td>
<td>Introductory Chemistry and</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 101*</td>
<td>Conceptual Physics or</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 102*</td>
<td>Introductory Physics for Science Majors or</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 105*</td>
<td>General Physics</td>
<td>4</td>
</tr>
<tr>
<td>POLS 101*</td>
<td>American Government and Politics</td>
<td>3</td>
</tr>
</tbody>
</table>

**List A. Select one course from the following (3 units)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 235*</td>
<td>Argumentation and Debate or</td>
<td>3</td>
</tr>
<tr>
<td>ENG 111*</td>
<td>Critical Thinking and Comp. Through Lit or</td>
<td>3</td>
</tr>
<tr>
<td>ENG 111H*</td>
<td>Crit. Thinking and Comp. Thru Lit, Honors or</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 111*</td>
<td>Critical Thinking and Writing in Philosophy or</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 205*</td>
<td>Introduction to Logic</td>
<td>3</td>
</tr>
</tbody>
</table>
List B. Select one course from the following (3-4 units)

ART 101* — Visual Literacy or ........................................ 3
MUS 110* — Music Appreciation or .................... 3
MUS 110H* — Music Appreciation, Honors or .......... 4
PE 250* — Survey and Appreciation of Dance History or ......................................................... 3
TA 103* — Theatre Appreciation .......................... 3

List C. Up to 9 additional units selected from the following:

Any courses not selected above and/or

ASL 102*, 103*, 104*; ANTH 102*, 103*, 113*;
ARBC 102*; ART 103* or 103H*, 104* or 104H, 106*, 108*, 120*, 130* or 131 or 132*, 140, 141, 150, 170, 190, 215*; BMS 107*, 108*; BLST 101*, 103*;
CHEM 104*; CHST 103*, 115*, 131*; CHIN 102*, 103*;
CIS 101; ECE 102*, 115*; ERTH 101* or 101H*, 141*, 141L*, 151* & 151L*, 152*; ENG 270; FR 102*, 103*, 104*; GER 102*, 103*; GEOG 101*, 101L*, 102*, 104*, 152*; HE 101*; HEBR 102*; HIST 102* or 102H*, 103*, 108*; ITAL 102*; JAPN 102*, 103*, 104*; KOR 102*;
LATN 102*; MATH 114*, 130*, 138*, 150*, 117* or 117H*; MUS 100, 102A*, 118*, 146, 148, 160;
PHIL 100* or 101* or 101H*, 102* or 102H*, 200*, 201*; PE 217; POLS 131*; PSY 100* or 100H*, 140*, 145*, 150*; SOC 101* or 101H*, 104*; SPAN 102*, 103*, 104*; TA 107*, 108*, 111*, 116

*These courses fulfill an IGETC and/or a CSU GE Breadth pattern requirement. Visit www.assist.org or http://articulation.sbcc.edu for a complete list of IGETC and CSU GE Breadth requirements.

III. CSU-Transferable Electives

Complete as many units as needed to reach a total of 60 CSU-transferable units (for a list of SBCC-transferable courses to CSU, visit www.assist.org).

Additional Graduation Requirements for AA-T in Elementary Teacher Education:

• Maintain a cumulative CSU-transferable GPA of 2.0.
• Residency Requirements: Candidates for an Associate Degree are expected to complete 15 semester units in residence at SBCC. Candidates for an Associate Degree are also expected to complete at least 20% of the department major requirements in residence at SBCC.
Library

Department Offices

Division: Educational Programs Support

Elizabeth Bowman, Library Director (L-134, ext. 4433)
Kenley Neufeld, Dean

LIBR 101 — Information Literacy
(1) — CSU, UC*

Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: COMP 103 and 123
Hours: 18 lecture

Information literacy is introduced and practiced: how information is created, disseminated and organized; and how to find, evaluate, think critically about and ethically use information. Students practice research skills, including narrowing topics; finding print, electronic and visual materials through the library and internet; summarizing and evaluating sources; and constructing citations. Satisfies SBCC Information Competency requirement. (*UC Transfer Limit: LIB 101 and ENG 120 combined: maximum credit, one course)
Marine Diving Technologies

Degrees, Certificates and Awards
Associate in Science Degree: Marine Diving Technician
Certificate of Achievement: Marine Diving Technician
Skills Competency Award: Commercial Diving
Department Award: Marine Science

The Department also offers:
ANSI Certification: Commercial Diver Training
ADC Certification: Commercial Diving

Program Description
Our world increasingly relies upon the resources and knowledge gained from the ocean and marine environment, our last frontier. This reality requires the Marine Diving Technologies Program to continue to provide the highest quality divers and marine technicians worldwide. The program serves the needs of entry-level students, as well as employees currently in the workforce. Students attend full-time or may take non-diving marine-related classes part time on a space available basis. Graduates can pursue multiple marine career paths in marine and underwater technology, working above and below the water with many types of sophisticated marine data collection instruments, diving and life-supporting equipment.

Santa Barbara City College’s Marine Diving Technologies Program is recognized worldwide for its vocational excellence. It is the only community college degree program in the nation which is accredited by the Association of Commercial Diving Educators (ACDE), the International Diving Schools Association (IDSA) and the National Association of Underwater Instructors (NAUI). Santa Barbara City College pioneered formalized diver and technician education with the AS Degree curriculum in 1968. It was the recipient of the Exemplary Program Award in 1998 from the State of California Community Colleges Chancellor’s Office.

Students who enroll in the Marine Diving Technologies Program have options to obtain an Associate in Science Degree or Certificate in marine technology. Industry-based certifications meeting the American National Standards Institute (ANSI) “Commercial Diver Training—Minimum Standard ANSI/ACDE-01-2009” and the International Diving Schools Association (IDSA) standards are also available for the field of commercial diving. The training is designed to meet the needs of the marine construction, research and tourism industries. These multi-billion dollar marine technology industries are dynamic and require personnel who have a broad training base involving technical skills above and below the water.

The Associate in Science Degree curriculum includes instruction in all phases of commercial diving, hyperbarics, bell/saturation diving, emergency medicine, boating and marine science, to name but a few. Teamwork and safety are the prime emphasis of the training.

There are virtually unlimited opportunities and challenges for the individual who desires an exciting and rewarding future researching the world’s needs for resources, medicine, transportation, recreation, national defense and the extension of man’s ability to work on and under the sea.

Program Student Learning Outcomes
1. Meet the qualifications of an entry-level commercial diver established by the United States Occupational Safety and Health Administration, the United States Coast Guard, the American National Standards Institute and the Association of Diving Contractors
2. Comprehend physical laws governing hyperbaric and industrial operations in a marine environment
3. Conduct hyperbaric and industrial-related activities safely and in accordance with recognized agency and industry standards
4. Apply knowledge of diving techniques and associated capabilities to determine proper operational procedures for diverse marine-related construction, inspection, maintenance, repair and decommissioning projects
5. Perform the assigned duties of an entry-level diver as an individual or member of a support team in a safe, effective and efficient manner

Facility
The MDT Program offers a most unique training environment. The college’s state-of-the-art diving and welding facility provides students with a safe and comfortable training environment. SBCC is ideally situated on California’s south-central coast, which facilitates open sea training in the Pacific Ocean.
Career Opportunities
Career opportunities and announcements are channeled directly through the Marine Diving Technologies Department, via an extensive contact system. Many employers solicit graduates during campus visits. The faculty are available directly for career counseling, and advice may also be obtained from the campus Career Center for job preparation and planning purposes.

Honors and Awards
The department is fortunate to be able to award several scholarships each year. The Ramsey Parks Memorial Scholarship was established to recognize an outstanding student majoring in Marine Diving Technologies. It is named in memory of Ramsey Parks, founder and Director of the MDT Program, 1968-1980. The Tom Devine Memorial Scholarship, sponsored by the Association of Diving Contractors (ADC), and the Nejat Ezal Memorial Scholarship are available for students who qualify. The Dr. Hugh Greer Memorial Scholarship Foundation was established in 2002 in memory of SBCC’s long-time medical review officer. Financial aid is also available through the Financial Aid Office at (805) 965-0581, ext. 2716.

Alumni Association
The Marine Diving Technologies Alumni Association was established by the department in 1995 to provide a communication and human resource link between graduates and the MDT Program. The Association was established to disseminate information about graduates, jobs, equipment and training issues related to diving technology. All students and graduates are eligible to join.

Department Office
Marine Technology Building
Judy Lough, Administrative Assistant (ext. 2426)
Alan Price, Dean (A-218, ext. 3044)

Faculty and Offices
Geoff Thielst, Chair and Program Director (MDT, ext. 2718)
Don Barthelmess (MDT, ext. 2427)
Dan Vasey (MDT, ext. 2992)

Skills Competency Award: Commercial Diving

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDT 107</td>
<td>Hyperbaric Chamber Operations</td>
<td>1.5</td>
</tr>
<tr>
<td>MDT 108</td>
<td>Rigging</td>
<td>1</td>
</tr>
<tr>
<td>MDT 109</td>
<td>Seamanship and Small Boat Handling</td>
<td>1.5</td>
</tr>
<tr>
<td>MDT 111</td>
<td>First Aid for the Diving Professional</td>
<td>1.5</td>
</tr>
<tr>
<td>MDT 112</td>
<td>Introduction to Marine Welding</td>
<td>1.1</td>
</tr>
<tr>
<td>MDT 140</td>
<td>Principles of Surface-Supplied Diving</td>
<td>1</td>
</tr>
<tr>
<td>MDT 141</td>
<td>Commercial Diving Equipment</td>
<td>1.5</td>
</tr>
<tr>
<td>MDT 142</td>
<td>Surface-Supplied Ocean Diving</td>
<td>1.8</td>
</tr>
<tr>
<td>MDT 143</td>
<td>Mixed Gas Diving</td>
<td>1.1</td>
</tr>
<tr>
<td>MDT 145</td>
<td>Principles of Underwater Cutting and Welding</td>
<td>1</td>
</tr>
<tr>
<td>MDT 146</td>
<td>Advanced Underwater Cutting and Welding</td>
<td>1.5</td>
</tr>
<tr>
<td>MDT 152</td>
<td>Underwater Tools and Inspection</td>
<td>1.7</td>
</tr>
</tbody>
</table>

Students must complete the above courses with the grade of “C” or higher or pass in all courses. Candidates for a Skills Competency Award are required to complete at least 20% of the department requirements through SBCC.

Certificate of Achievement: Marine Diving Technician

Department Requirements (25.4)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDT 101</td>
<td>Information and Introduction to MDT</td>
<td>0.3</td>
</tr>
<tr>
<td>MDT 104</td>
<td>Fundamentals and Practices of Diving</td>
<td>2</td>
</tr>
<tr>
<td>MDT 105</td>
<td>Advanced Scuba Techniques</td>
<td>1.7</td>
</tr>
<tr>
<td>MDT 106</td>
<td>Open Water Navigation and Rescue</td>
<td>0.7</td>
</tr>
<tr>
<td>MDT 107</td>
<td>Hyperbaric Chamber Operations</td>
<td>1.5</td>
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<td>MDT 108</td>
<td>Rigging</td>
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<td>Seamanship and Small Boat Handling</td>
<td>1.5</td>
</tr>
<tr>
<td>MDT 111</td>
<td>First Aid for the Diving Professional</td>
<td>1.3</td>
</tr>
<tr>
<td>MDT 112</td>
<td>Introduction to Marine Welding</td>
<td>1.1</td>
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<tr>
<td>MDT 140</td>
<td>Principles of Surface-Supplied Diving</td>
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<tr>
<td>MDT 141</td>
<td>Commercial Diving Equipment</td>
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<td>MDT 142</td>
<td>Surface-Supplied Ocean Diving</td>
<td>1.8</td>
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<tr>
<td>MDT 143</td>
<td>Mixed Gas Diving</td>
<td>1.1</td>
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<tr>
<td>MDT 145</td>
<td>Principles of Underwater Cutting and Welding</td>
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<tr>
<td>MDT 146</td>
<td>Advanced Underwater Cutting and Welding</td>
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### Marine Diving Technologies

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>MDT 147</td>
<td>Ocean Structures</td>
<td>0.5</td>
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<tr>
<td>MDT 148</td>
<td>Hydraulics I</td>
<td>0.7</td>
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<tr>
<td>MDT 152</td>
<td>Underwater Tools and Inspection</td>
<td>1.7</td>
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<td>MDT 154</td>
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<tr>
<td>MDT 179</td>
<td>NITROX Diving</td>
<td>0.8</td>
</tr>
<tr>
<td>MDT 190</td>
<td>Assessment and Development of Diving Competence</td>
<td>1</td>
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</tbody>
</table>

**Recommended Electives**
- BIOL 124 — Biological Oceanography or
- BIOL 142 — Marine Science or
- ERTH 151 — Physical Oceanography ........... 3-4
- BIOL 125 — Marine Biology .................. 4
- CS 101 — Computer Concepts .................. 4
- DRFT 101 — Basic Drafting or .............. 3
  - DRFT/ENGR 105 — Engineering Graphics or .... 4
  - DRFT 130 — Comp-Assisted Draft and Design I...... 5
- EMT 110 — Emergency Medical Technician-Basic ...... 6
- MDT 290 — Work Experience in MDT ........... 1-4
- PE 134A — Swimming for Conditioning ........ 1.5
- PHYS 101/101L — Conceptual Physics ............ 4

Students must complete all department requirements for the certificate with a cumulative GPA of 2.0 or better. **Candidates for a Certificate of Achievement are required to complete at least 20% of the department requirements through SBCC.**

### Department Award: Marine Science

**Department Requirements (18.8 units)**

Students planning on completing the Marine Science curriculum in two semesters can begin in either Fall or Spring.

**Fall Semester**
- BIOL 124* — Biological Oceanography ............. 4
- ERTH 152 — Weather and Climate or
  - GEOG 152 — Weather and Climate .................. 3
- MDT 108 — Rigging ................................... 1
- MDT 109 — Seamanship and Small Boat Handling ...... 1.5
- HE 103* — Responding to Medical Emergencies ...... 2

**Spring Semester**
- BIOL 125* — Marine Biology ..................... 4
- MDT 101 — Information and Introduction to Marine Diving Technology .......... 0.3
- ERTH 151 — Introductory Physical Oceanography and Lab .................. 4

**Plus completion of Basic Scuba Diving Certificate**

*Substitutions:* The combination of BIOL 101 (Plant Biology) and BIOL 102 (Animal Biology) can be substituted for BIOL 125. The completion of EMT 110 can be substituted for HE 103. The completion of BIOL 142 can be substituted for BIOL 124.

A student must complete each of the required courses (or use substitution options) with a grade of “C” or better.

### Associate in Science Degree: Marine Diving Technician

The Associate Degree will be awarded upon completion of both department and college requirements.

**Department Requirements (45.4-48.4 units)**

- BIOL 124 — Biological Oceanography or
  - BIOL 142 — Marine Science or
  - ERTH 151 — Physical Oceanography ................. 3-4
- BIOL 125 — Marine Biology ............. 4
- DRFT 101 — Basic Drafting or .......... 3
  - DRFT/ENGR 105 — Engineering Graphics or ...... 4
  - DRFT 130/ENGR 130 — Comp-Assisted Draft and Design I ...... 5
- EMT 110 — Emergency Medical Technician Basic ...... 6
- MDT 101 — Information and Introduction to MDT ........ 0.3
- MDT 104 — Fundamentals and Practices of Diving ...... 2
- MDT 105 — Advanced Scuba Techniques ............ 1.7
- MDT 106 — Open Water Navigation and Rescue .......... 0.7
- MDT 107 — Hyperbaric Chamber Operations ......... 1.5
- MDT 108 — Rigging ................................... 1
- MDT 109 — Seamanship and Small Boat Handling ...... 1.5
- MDT 111 — First Aid for the Diving Professional ...... 1.3
- MDT 112 — Introduction to Marine Welding .......... 1.1
- MDT 140 — Principles of Surface-Supplied Diving ...... 1
- MDT 141 — Commercial Diving Equipment .......... 1.5
- MDT 142 — Surface-Supplied Ocean Diving ........ 1.8
Marine Diving Technologies Courses

MDT 143 — Mixed Gas Diving ........................................ 1.1
MDT 145 — Principles of Underwater Cutting and Welding ... 1
MDT 146 — Advanced Underwater Cutting and Welding .... 1.5
MDT 147 — Ocean Structures ........................................ 0.5
MDT 148 — Hydraulics I .............................................. 0.7
MDT 152 — Underwater Tools and Inspection ............... 1.7
MDT 154 — Bell and Saturation Diving Procedures .......... 1.7
MDT 179 — NITROX Diving .......................................... 0.8
MDT 190 — Assessment and Development of Diving Competence .............................................. 1
PHYS 101/101L — Conceptual Physics ......................... 4

Recommended Electives
CS 101 — Computer Concepts ......................................... 4
MDT 290 — Work Experience in MDT ............................. 1-4
MDT 299 — Independent Study in MDT ............................ 1-4
PE 134A — Swimming for Conditioning: Beginning ...... 1.5

College Requirements
For complete information, see “Graduation Requirements” in the Catalog Index.

Admission Requirements for Marine Diving Technician
Acceptance by the college does not guarantee acceptance into programs. Non-diving marine technology classes are open to all SBCC students on a space available basis. All of the following must be complied with for diving students:
2. Completion of required forms for admission to Santa Barbara City College—contact the Admissions Office.
3. Completion of special application forms from Marine Diving Technologies for the programs.
4. Complete an annual department diving physical exam approved by a physician.
5. Certificate of Achievement from a basic Scuba course from a nationally recognized agency.
6. Provide full Scuba equipment for ocean diving.
7. Attend an MDT orientation session on campus.
8. Completion of required waiver and release form.
9. Successful performance of the swimming tests in the presence of the college diving officer.

Marine Science Certificate
The Marine Science curriculum trains students interested in the fields of mariculture, boating and recreation, skin and Scuba diving, physical and biological oceanography, scientific research and marine science education. Satisfactory completion of the two-semester curriculum earns the student a Biological Sciences Departmental Marine Science Certificate. See the “Biological Sciences” section of this Catalog.

Advising
In addition to the college counseling staff, the Marine Diving Technologies Department Chairperson and staff are available to advise persons interested in this field. Information may be obtained by visiting or calling the department.

Program Cost and Outcome
For planning purposes, the following webpage provides information on the cost of attendance, program length (assuming a student attends full time), financing options and historical student completion rates:
www.sbcc.edu/financialaid/gainfulemployment/Marine%20Diving%20Technician.htm

Marine Diving Technologies Courses

MDT 101 — Information and Introduction to Marine Diving Technology (0.3)
Hours: 8 (5 lecture, 3 lab)
Overview of marine diving and the SBCC Marine Diving Technologies modular curriculum. Assessment of swimming, diving and mathematical skills. Primary purpose is to provide information on the modular concepts, equipment requirements, fees and application process required for enrollment in the MDT Program.

MDT 104 — Fundamentals and Practices of Diving (2)
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 36 lecture
Modular study of diving physics, physiology, dive planning and safety; stresses the importance of environmental and equipment-related situations. Computations utilizing various decompression profiles emphasized.
MDT 105 — Advanced Scuba Techniques (1.7) — CSU, UC
Corequisites: MDT 101
Hours: 60 (16 lecture, 44 lab)
Practical application of Scuba diving techniques and skill building in the confined water and open ocean environments. (*UC Transfer Limit: MDT 105, HE 108, 213 and PE activity courses combined: maximum credit, 4 units)

MDT 106 — Open Water Navigation and Rescue (0.7)
Corequisites: MDT 105
Hours: 20 (8 lecture, 16 lab)
Practical application of navigation and rescue skills in the ocean environment.

MDT 107 — Hyperbaric Chamber Operations (1.5)
Corequisites: MDT 101
Hours: 48 (16 lecture, 32 lab)
Theoretical and practical application of hyperbaric chambers and treatment of diving and non-diving related accidents. Hands-on practice utilizing department’s recompression chamber facility is the focus of laboratory activities.

MDT 108 — Rigging (1)
Corequisites: MDT 101
Hours: 40 (8 lecture, 32 lab)
Introduction to and practical application of basic rigging techniques, including knots, splices, block and tackle, and marlin spike.

MDT 109 — Seamanship and Small Boat Handling (1.5)
Corequisites: MDT 101
Hours: 48 (16 lecture, 32 lab)
Modular study and application of small boat handling, maritime rules of the road and navigational principles and practices.

MDT 111 — First Aid for the Diving Professional (1.3)
Hours: 24 lecture
Modular certification program in oxygen administration, first aid for hazardous marine life injuries CPR and AED use, with emphasis as a first responder to diving-related accidents. Certification available through appropriate agencies, which include the American Red Cross and the Divers Alert Network (DAN).

MDT 112 — Introduction to Marine Welding (1.1)
Hours: 40 (8 lecture, 32 lab)
Introductory module on the theory, practical application and procedures of cutting and welding in the topside environment. Skills acquired and developed in welding shop environment. Prepares students for MDT 145 techniques, which are applied in the welding booth and underwater training tank environment.

MDT 140 — Principles of Surface-Supplied Diving (1)
Corequisites: MDT 105
Limitation on Enrollment: Must be a certified diver by a nationally recognized scuba diving agency.
Hours: 40 (8 lecture, 32 lab)
Introductory module which exposes students to the various types of diving apparatus and procedures in confined water training tanks. Emphasis on tending, dress-in and operational procedures which parallel a surface-supplied diving operation.

MDT 141 — Commercial Diving Equipment (1.5)
Corequisites: MDT 140
Hours: 48 (16 lecture, 32 lab)
Principles of operation and maintenance as applied to diesel engines, diving compressors and pneumatic tools. Particular emphasis on identification of the various fittings used in an industrial environment. In addition, the maintenance and repair practices and procedures relating to surface-supplied diving head gear and diving umbilicals are presented and applied.
MDT 142 — Surface-Supplied Ocean Diving (1.8)
Corequisites: MDT 140
Course Advisories: MDT 141
Hours: 60 (16 lecture, 44 lab)
Study and practical application of advanced tethered diving working procedures and operational theory. Particular emphasis is placed on charting dive profiles, computing decompression schedules and organizing field operations. All lab activities conducted in open sea environments which simulate actual working conditions likely to be encountered in commercial diving.

MDT 143 — Mixed Gas Diving (1.1)
Corequisites: MDT 142
Hours: 59 (8 lecture, 36 lab)
Advanced modular study of the physics and application of specialized gas mixtures, gas diving apparatus, decompression tables and operational procedures.

MDT 145 — Principles of Underwater Cutting and Welding (1)
Corequisites: MDT 112 and 140
Hours: 40 (8 lecture, 32 lab)
Introductory module on the theory, practical application and procedures of welding and burning in the underwater environment. Skills are acquired and developed in a wet diving training tank. Prepares students for advanced techniques which are applied in the open sea environment.

MDT 146 — Advanced Underwater Cutting and Welding (1.5)
Corequisites: MDT 142
Hours: 48 (16 lecture, 32 lab)
Advanced practical application in the use of underwater cutting and welding techniques in the ocean and open water environments. Students utilize foundational techniques in advanced surface-supplied ocean diving to perform a multitude of individual and team projects.

MDT 147 — Ocean Structures (0.5)
Course Advisories: MDT 101
Hours: 8 lecture
Modular study of ocean structures likely to be encountered in the marine industry. Focuses on nomenclature and types and construction of offshore platforms, pipelines and other subsea structures.

MDT 148 — Hydraulics I (.7)
Corequisites: MDT 101
Hours: 24 (8 lecture, 16 lab)
Study of industrial fluid power mechanics with a practical laboratory component as related to marine equipment. Emphasis on schematic design, interpretation and the role of hydraulic equipment and control systems as applied to subsea work systems, tools and work class remotely-operated vehicles.

MDT 152 — Underwater Tools and Inspection (1.7)
Corequisites: MDT 140
Hours: 60 (16 lecture, 44 lab)
Study of techniques and tools used to collect data and perform inspection work in underwater environments. Students use a variety of equipment in hands-on application including subsea video cameras, ultrasonic equipment and other non-destructive testing devices. Students apply advanced diving skills in assembling and disassembling various underwater projects in an open sea environment.

MDT 154 — Bell and Saturation Diving Procedures (1.7)
Corequisites: MDT 143
Hours: 60 (16 lecture, 44 lab)
Intensive exposure to saturation diving theory and a practical application of skills in bell/saturation diving. Practical training in bell and saturation diving operations, equipment and procedures. Culminates with the performance of a round-the-clock saturation diving run in the department's saturation diving complex.
MDT 179 — NITROX Diving
(0.8)
Corequisites: MDT 101
Hours: 20 (8 lecture, 12 lab)
Modular study of EANx NITROX mixtures used in diving. Two optional open water dives may be made upon successful completion of classroom portion. Certification through the International Association of NITROX and Technical Divers (IANTD) as a NITROX diver is available upon completion of the course.

MDT 190 — Assessment and Development of Diving Competence
(1)
Hours: 18 lecture
Introductory module designed to enhance student knowledge of diverse employment opportunities in field of commercial diving. Bureau of Ocean Energy Management, Regulation and Enforcement mandated orientation and safety training.

MDT 290 — Work Experience in Marine Diving Technology
(1-4)
Limitation on Enrollment: Must be a currently enrolled MDT student with a current physical exam (within one year).
Course Advisories: MDT 101
Hours: 120-300 lab
Supervised employment for MDT and related technologies majors whose career objectives, course study and employment complement each other. The student must be employed in an occupation directly related to the Marine Diving Technologies major. The student must also be enrolled in no less than seven (7) units, including Work Experience.
Mathematics

Degrees
Associate in Arts Degree: Mathematics
Associate in Science Degree (AS-T): Mathematics for Transfer

Program Description
Each year, the list of careers demanding familiarity with basic mathematical skills grows. Environmental sciences, architecture, business management, nursing, dentistry, computer programming, electronics, forestry management, psychology and photography represent only a small sample from this list.

The Mathematics Department at Santa Barbara City College offers a broad curriculum to meet the needs of students with a wide variety of goals. It offers a standard college-level sequence in single and multivariable calculus, analytic geometry, linear algebra and ordinary differential equations for freshman and sophomore students who plan to transfer to four-year colleges or universities. In addition, the department offers courses in statistics and calculus for Business, Biological Sciences and Social Science majors, as well as courses in support of Career Technical Education programs.

The department also serves students who need to improve their basic skills in mathematics, as well as students who are returning to formal education after a period away from school. The department provides a complete precalculus program, including elementary algebra, intermediate algebra, college algebra and trigonometry to review old or gain new mathematical skills. Basic math and pre-algebra courses provide an opportunity for students to refresh their arithmetic skills in order to participate in their educational endeavors.

In all of the department’s course offerings, there is a strong commitment to training the student in analytical and logical thinking skills as part of a problem-solving attitude which can be transferred outside the formal educational setting.

The Mathematics Department offers an AS-T Degree in Mathematics for Transfer. This degree provides the foundational knowledge in Mathematics to students who want to earn a Baccalaureate Degree in Mathematics. This degree is in compliance with the Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code Sections 66746-66749) and guarantees admission to a California State University (CSU) campus for any community college student who completes an “associate degree for transfer,” a newly established variation of the associate degrees traditionally offered at a California community college. Upon completion of the transfer associate degree, the student is eligible for transfer with junior standing into the California State University (CSU) system. Students will be given priority consideration when applying to a particular program that is similar to the student’s community college area of emphasis. For more information on transfer degrees, visit www.sb1440.org.

Program Student Learning Outcomes
1. Use symbolic, graphical, numerical and written representations to describe mathematical ideas.
2. Use mathematical reasoning to solve problems and apply a variety of problem-solving approaches to find and interpret solutions.
3. Use mathematics to model and solve problems in the sciences.
4. Use appropriate technology to enhance mathematical thinking and understanding, solve mathematical problems, and interpret their results.
5. Use the language and notation of differential and integral calculus correctly and use appropriate style and format in written work.
6. Recognize the roles of definitions, axioms and theorems, and identify and construct valid deductive arguments.

Department Offices
Sandra Poblano, Instructional Support Assistant (IDC-317, ext. 2340)
Math Tutorial Lab and Computer Lab: Allison Chapin, Coordinator (IDC-102, ext. 2300)
Math Computer Lab (IDC-109)
Math Tutorial Lab (IDC-102, ext. 2300)
Marilynn Spaventa, Dean

Faculty and Offices
James Campbell, Chair (IDC-328, ext. 2340)
Ignacio Alarcon (IDC-327B, ext. 2559)
Lee Chang (IDC-331, ext. 3683)
Yen Chou (IDC-219A, ext. 3034)
Elizabeth Cunningham
Robert M. Elmore (IDC-341, ext. 2447)
Peter Georgakis (IDC-346, ext. 2553)
Pamela Guenther (IDC-336-A, ext. 2707)
David Gilbert (IDC-345, ext. 2208)
Jared Hersh (IDC-327B, ext. 2340)
James Kruidenier (IDC-339, ext. 2682)
Noureddine (Eddie) Laanaoui (IDC-330, ext. 4748)
Jennifer Loftus (IDC-219B, ext. 8766)
Sharareh Masooman (IDC-336B, ext. 2472)
Jason Miner (IDC-342, ext. 2267)
Bronwen Moore (IDC-337, ext. 4232)
Christopher Panza (IDC-326)
Anna Parmely (IDC-343, ext. 4720)
Gabriel Pretel (IDC-311, ext. 4724)
Peter Rojas (IDC-340, ext. 2737)
Ron Wopat (IDC-338, ext. 2708)

AA Degree: Mathematics

Department Requirements (35-36 units)

CIS 209 — Visual Basic.NET Programming or ...........................4
CS 105 — Theory and Practice I or .................................3
CS 107 — Comp Architecture and Org or .........................3
CS 120 — Java Programming or ....................................3
CS 137 — C Programming or ........................................3
CS 140 — Object-Oriented Programming Using C++ ..........4
MATH 150 — Calculus with Analytic Geometry I ..............5
MATH 160 — Calculus with Analytic Geometry II ..............5
MATH 200* — Multivariable Calculus ...............................4
MATH 210* — Linear Algebra .........................................4
MATH 220* — Differential Equations ...............................4
PHYS 121 — Mechanics of Solids and Fluids ....................5
PHYS 122 — Electricity and Magnetism or ........................5
PHYS 123 — Heat, Light and Modern Physics .................5
MATH 250/260 will also satisfy these requirements.

For a Math AA Degree, at least one of the courses MATH 200, 210, 220 must be taken at SBCC.

Planning a Program of Study

The required first-year calculus and Computer Science courses are offered each semester (except possibly in summer). The Physics courses are offered sequentially, beginning each spring with PHYS 121.

Care should be taken, however, that one semester of calculus is completed before attempting the Physics sequence. It is recommended that students take courses in order. A programming language course should be taken as soon as possible because of its usefulness as a computational tool.

The mathematics major at Santa Barbara City College meets the accepted normal curriculum. However, transfer students are advised to review, in depth, the current catalogs of institutions to which they plan to transfer for additional course requirement information.

Because mathematics is such a precisely structured discipline, students who have not acquired adequate skills and understanding at one course level will find it most difficult to succeed in the next higher course. For this reason, an important part of the Mathematics Program at Santa Barbara City College is appropriate placement of students into classes to increase their chances of success in mastering course content.

Placement into a math class can occur one of three ways: (a) If students are beginning their college career and have not taken college level math classes at another accredited college or university, then they need to take one of SBCC’s assessment exams. For assessment exam information and hours, call the Assessment Center at (805) 965-0581, ext. 2349 or www.sbcc.edu/assessmentcenter. (b) If students are transferring from another college or if have already taken college-level math classes, then they need to submit evidence of previous math courses to the Transcript Evaluation Office. For course evaluation information, go to www.sbcc.edu/prerequisitepolicy. (c) If students are continuing at SBCC, they should follow the appropriate sequence posted in the Schedule of Classes. There are several branches of the sequence, and each student should consult with a math instructor or counselor to make sure he/she has chosen the correct path for his/her educational goals.

Students are urged to take placement examinations and enroll in math classes as soon as possible. It is not wise to postpone taking required math courses. Doing so might significantly delay transfer.

Sample Program

The following sample program is designed for Mathematics majors contemplating transfer to the University of California or California State University systems, or comparable institutions.
First Year
Fall Semester
MATH 150 — Calculus, with Analytic Geom I ...................... 5
CHEM 155* — General Chemistry I ................................. 5
ENG 110 — Composition and Reading or
  ENG 110H — Composition and Reading, Honors .......... 3
CS 120 — Java Programming or ...................................... 3
CS 107 — Comp Architecture and Org or ....................... 4
CS 105 — Theory and Practice I or ................................. 3
CS 137 — C Programming or .......................................... 3
CS 140 — C++ Programming or .................................... 4
CIS 209 — Visual Basic Programming ..............................

Spring Semester
MATH 160 — Calculus, with Analytic Geom II .................... 5
CHEM 156* — General Chemistry II ................................ 5
ENG 111 — Critical Thinking Through Lit or
  ENG 111H — Critical Thinking Through Lit, Honors .......... 3
PHYS 121 — Mechanics of Solids and Fluids ................... 5

Second Year
Fall Semester
MATH 200* — Multivariable Calculus .............................. 4
MATH 210 — Linear Algebra ......................................... 4
Social Science/Humanities
Spring Semester
MATH 220 — Differential Equations .................................. 4
PHYS 122 — Electricity and Magnetism or
  PHYS 123 — Heat, Light and Modern Phys .................. 5
Social Science/Humanities

American Institutions Requirements
*CHEM 155-156 is not required for the Associate Degree.
Another elective course can be selected in its place.

Preparation for Transfer
Course requirements for transfer vary depending upon the college or university a student wishes to attend. Therefore, it is most important for a student to consult with his/her counselor and departmental adviser before planning an academic program for transfer. Information sheets for majors, outlining transfer requirements, are available in the Counseling Center and the Transfer Center.

College Requirements
For complete information, see “Graduation Requirements” in the Catalog Index.

Requirements for AS-T Degree—Mathematics for Transfer
The field of mathematics covers a wide range of topics. The major is designed to give students exposure to basic information in the discipline and provide the opportunity to focus on the areas that best suit their individual needs. Students should consult with a departmental adviser and/or counselor when choosing both controlled and general electives in order to develop a program of study that is best suited to their specific needs. For example, requirements for the Baccalaureate Degree in Mathematics vary from one institution to another. It is, therefore, essential to become familiar with the requirements of the institution a student plans to attend.

The Associate in Science Degree in Mathematics for Transfer will provide the foundational knowledge to students who want to earn a Baccalaureate Degree in Mathematics at any of the CSU campuses.

Degree Requirements
Complete 60 CSU-transferable units including General Education, major requirements and CSU-transferable electives as follows:

I. General Education
Complete one of the following patterns:
- Intersegmental General Education Transfer
  Curriculum “IGETC” for CSU (38 semester units)
- California State University General Education
  Breadth pattern (40 semester units)

II. Major
Complete 21-23 units as outlined below with a “C” or better in each course. Pass/No Pass grading is not permitted in a course within a student’s major area of study. The courses completed for the major may also be used to fulfill General Education areas on the IGETC or the CSU GE Breadth.

Required Core (14 units)
MATH 150* — Calculus with Analytic Geometry I ............... 5
MATH 160* — Calculus with Analytic Geometry II .............. 5
MATH 200* — Multivariable Calculus ............................. 4
List A. Choose at least one of the following (4 units):
MATH 210* — Linear Algebra ..............................................4
MATH 220* — Differential Equations ........................................4

List B. Choose one of the following (3-5 Units):
Any course not taken in List A or
CS 105 — Theory and Practice I ........................................3
CS 106 — Theory and Practice II ........................................3
CS 108 — Discrete Structures ........................................4
CS 120 — Java Programming ........................................3
CS 137 — C Programming ........................................3
CS 140 — Object-Oriented Prog, Using C++ .........................4
MATH 117* — Elementary Statistics or ................................4
MATH 117H* — Elementary Statistics, Honors or ...............4
PSY 150* — Statistics for Behavioral Science .................4
PHYS 121* — Mechanics of Solids and Fluids .................5

*These courses fulfill an IGETC and/or a CSU GE Breadth pattern requirement. Visit www.assist.org or http://articulation.sbcc.edu for IGETC and CSU GE Breadth requirements.

III. CSU-Transferable Electives
Complete as many units as needed to reach a total of 60 CSU-transferable units (for a list of SBCC-transferable courses to CSU, visit www.assist.org).

Additional Graduation Requirements for AS-T in Mathematics:
- Maintain a cumulative CSU-transferable GPA of 2.0.
- Residency Requirements: Candidates for an Associate Degree are expected to complete 15 semester units in residence at SBCC. Candidates for an Associate Degree are also expected to complete at least 20% of the department major requirements in residence at SBCC.

Mathematics Courses

MATH 001 — Basic Mathematics (3)
Hours: 54 lecture
Basic math course, including place value, reading and writing numbers; arithmetic operations on whole numbers; fraction concepts and operations on fractions; decimal concepts and operations on decimals; ratio and proportion; percentage; U.S. and metric systems of measurement; numerical geometry; graph reading; operations on signed numbers. Application of arithmetic to everyday life (word problems) is emphasized throughout the course.

MATH 001N — Study Skills in Math (1)
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 18 lecture
Topics designed to increase student success in mathematics.

MATH 004 — Pre-Algebra (3)
Prerequisites: MATH 1 with a “C” or better or qualifying score on SBCC placement exam.
Hours: 54 lecture
Introduction to algebra: signed numbers, exponents, roots, evaluation of algebraic expressions, simplification of algebraic expressions, translation from English to algebra, solution of linear equations.

MATH 041 — Fundamentals in Mathematics and Pre Algebra (5)
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 90 lecture
Foundational course, including language development, place value; definitions, concepts and operations on whole numbers, fractions, decimals, ratios, proportions, percentage and signed numbers; U.S. and metric measurement systems; introduction to algebra, rules of exponents, roots, evaluation and simplification of algebraic expressions; solving linear equations, basic polynomial factoring, and introduction to graphing. Application/word problems throughout the course.

MATH 070 — Reading and Writing in Mathematics (1)
Prerequisites: MATH 4
Hours: 18 lecture
Course for students to develop strategies for reading and writing to learn mathematics.

MATH 074 — Pre-Algebra Refresher (1)
Hours: 18 lecture
Pre-algebra refresher for students who desire higher placement; students who’ve completed Math 4 but need review; or those who have attempted MATH 95 and need pre-algebra review. Successful completion of this course may serve as a petition to challenge MATH 4. Course does not replace a failing grade in MATH 4.

**MATH 080 — Elementary Algebra Refresher**
(1)
*Hours: 18 lecture*

For students who assessed into MATH 95 and wish to improve their assessment level or who unsuccessfully attempted MATH 107 and need review of elementary algebra. Successful completion may serve as a petition to challenge MATH 95 through a comprehensive exam.

**MATH 087 — Intermediate Algebra Refresher**
(1)
*Hours: 18 lecture*

Intermediate algebra refresher for students who desire higher placement; students who have completed MATH 107 but need review; or those who have attempted MATH 120 and need review. Successful completion of this course may serve as a petition to challenge MATH 107. Course does not replace a failing grade in MATH 107.

**MATH 095 — Elementary Algebra**
(5)
*Prerequisites: MATH 4 or 41 with a “C” or better or qualifying score on SBCC placement exam.
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 90 lecture*

Beginning algebra, similar to a standard first-year high school algebra course. Includes a review of signed numbers and their properties, equations and inequalities in one variable, graphing linear equations, systems in two variables, integer exponents, rational and polynomial expressions, quadratic equations, the quadratic formula, and graphing parabolas.

**MATH 095N — Study Skills in Mathematics**
(1)
*Corequisites: MATH 95
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 18 lecture*

Topics designed to increase student success in mathematics. **Note:** MATH 95N to be taken as a corequisite for a specified section of MATH 95. (See Schedule of Classes for the specific section).

**MATH 103 — Nursing and Allied Health Math**
(1)
*Once every three semesters, excluding Summer
Prerequisites: MATH 4 with a minimum grade of “C” or better or qualifying score on SBCC placement exam
Hours: 18 lecture*

Designed for Nursing and Allied Health professionals, focuses on math skills necessary to be successful in an Allied Health occupational area. After reviewing basic math skills and algebra, students learn metric system conversions, conversion among and between the metric, apothecary and household units of measure, and computational methods used in the preparation of medications.

**MATH 107 — Intermediate Algebra**
(4)
*Prerequisites: MATH 95 with a “C” or better or qualifying score on SBCC placement exam.
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 72 lecture*

Second course in algebra, including algebraic manipulation of polynomials, rational expressions, exponents, radicals, linear equations, ratio and proportion, inequalities, word problems, quadratic equations, systems of linear and quadratic equations. An introduction to functions and nonlinear equations. Exponential and logarithmic functions and their applications.

**MATH 107N — Study Skills in Intermediate Algebra**
(1)
*Corequisites: MATH 107 (concurrent)
Skills Advisories: Eligibility for ENG 98 and 103; proficiency in MATH 95
Hours: 18 lecture*

Topics to increase student success in intermediate algebra.

**MATH 108 — Structures and Concepts in Mathematics I**
(4) — CSU, UC
*Prerequisites: MATH 104 or 107 or 111 with a “C” or better or qualifying score on SBCC placement exam.
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 72 lecture*
Recommended for prospective and in-service elementary school teachers. Mathematical investigations involving sets, number sense, integers, rational numbers and real numbers.

MATH 111 — Intermediate Algebra for Math, Science and Business Majors
(5)
Prerequisites: MATH 95 with a “C” or better, or qualifying score on SBCC placement exam.
Skills Advisories: Eligibility for ENG 103
Hours: 90 lecture
Second course in algebra, including algebraic manipulation of polynomials, rational expressions, exponents, radicals, linear equations, ratio and proportion, inequalities, word problems, complex numbers, quadratic equations, and systems of linear and nonlinear equations. Introduction to functions and nonlinear equations. Exponential and logarithmic functions and their applications. Introduction to graphing calculators.

MATH 114 — Mathematics for Liberal Arts Majors
(4) — CSU, UC
Prerequisites: MATH 107 with a minimum grade of “C” or MATH 111 with a minimum grade of “C” or qualifying score on SBCC exam
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 72 lecture
Intended to broaden students’ understanding of methods, history and applications of mathematics. Logic, mathematical proofs, numeration systems, modular arithmetic, coordinate geometry and graphing, elementary probability and statistics, linear programming and financial math.

MATH 117 — Elementary Statistics
(4) — CSU, UC*
Prerequisites: MATH 104 or 107 or 111 with a “C” or better or qualifying score on SBCC placement exam.
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 72 lecture
General education mathematics course. Introduction to design of experiments, descriptive statistics and sampling distributions, Central Limit Theorem, statistical inference, confidence interval estimation and tests of hypotheses, correlation and linear regression, categorical variables and Chi-square distribution. One-way ANOVA, multiple comparisons procedure. (*UC Transfer Limit: MATH 117, 117H and PSY 150 combined: maximum credit, one course)

MATH 117H — Elementary Statistics, Honors
(4) — CSU, UC*
Prerequisites: MATH 104 or 107 or 111 with a “C” or better or qualifying score on SBCC placement exam.
Skills Advisories: Eligibility for ENG 110 or 110H
Limitation on Enrollment: Honors Program Acceptance
Hours: 72 lecture
General Education mathematics course. Introduction to design of experiments, descriptive statistics and sampling distributions, Central Limit Theorem, statistical inference, confidence interval estimation and tests of hypotheses, correlation and linear regression, categorical variables and Chi-square distribution. One-way ANOVA, multiple comparisons procedure. (*UC Transfer Limit: MATH 117, 117H and PSY 150 combined: maximum credit, one course)

MATH 120 — College Algebra
(4) — CSU, UC*
Prerequisites: MATH 104 or 107 or 111 with a “C” or better or qualifying score on SBCC placement exam.
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 72 lecture
Study of functions and their graphs, including polynomial, rational, exponential and logarithmic functions. Systems of equations and conics. (*UC Transfer Limit: MATH 120, 137 and 138 combined: maximum credit, 5 semester/7.5 quarter units)

MATH 130 — Calculus for Biological Sciences, Social Sciences and Business I
(5) — CSU, UC*
Prerequisites: MATH 111 or 120 with a “C” or better or qualifying score on SBCC placement exam.
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 90 lecture
Calculus of one variable, limits, continuity, differentiation, Riemann approximations, definite and indefinite integrals; introduction to integration techniques, exponential and logarithmic functions, curve-sketching, maxima/minima problems, related rates and applications. (*UC Transfer Limit: MATH 130 and 150 combined: maximum credit, one course)
MATH 131 — Calculus for Biological Sciences, Social Sciences and Business II  
(3) — CSU, UC*  
Prerequisites: MATH 130 with a “C” or better  
Skills Advisories: Eligibility for ENG 98 and 103 and MATH 130  
Hours: 54 lecture  
Techniques of integration for single and multivariable calculus, functions of several variables, partial differentiation, maxima/minima problems, differential equations and probability. Optional topics: infinite series, Taylor’s Theorem and the calculus of trigonometric functions. (*UC Transfer Limit: MATH 131 and 160 combined: maximum credit, one course)

MATH 137 — Precalculus I - College Algebra and Functions  
(5) — CSU, UC*  
Prerequisites: MATH 104 or 107 or 111 with a “C” or better or qualifying score on SBCC placement exam  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 90 lecture  
Short review of intermediate algebra topics, extensive treatment of functions and graphing techniques including translations, symmetries, reflections and graphs of inverse functions. Identities and conditional equations. Analysis and applications of polynomial, rational, exponential and logarithmic functions. Solving linear and nonlinear systems, using matrix algebra, and roots of higher-degree polynomials. Logic and structure of proofs. (*UC Transfer Limit: MATH 120, 137 and 138 combined: maximum credit, 5 semester/7.5 quarter units)  
Note: MATH 137/138 precalculus sequence is equivalent to the former 140/141 precalculus sequence. Students who have passed the 140/141 sequence may not enroll in the 137/138 sequence.

MATH 138 — Precalculus II - College Algebra and Trigonometry  
(4) — CSU, UC*  
Prerequisites: MATH 137 with a “C” or better or qualifying score on SBCC placement exam  
Skills Advisories: Eligibility for ENG 98 or 110H  
Hours: 72 lecture  
Advanced algebra course emphasizing analysis, graphing and applications of trigonometric functions. Such functions are developed from circular functions. Trigonometric identities and conditional equations, applications to triangles, vectors, complex numbers, parametric equations and polar coordinates. Additional topics include sequences, series and the Binomial Theorem. (*UC Transfer Limit: MATH 120, 137 and 138 combined: maximum credit, one course)

MATH 150 — Calculus with Analytic Geometry I  
(5) — CSU, UC*  
Prerequisites: MATH 138 with a “C” or better or qualifying score on SBCC placement exam  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 90 lecture  
Limits, derivatives and integrals of algebraic, trigonometric, exponential and logarithmic functions. Differentials and applications of the derivative. Introduction to differential equations. (*UC Transfer Limit: MATH 130 and 150 combined: maximum credit, one course)

MATH 160 — Calculus with Analytic Geometry II  
(5) — CSU, UC*  
Prerequisites: MATH 150 with a “C” or better  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 90 lecture  
Techniques of integration; applications of definite integrals; polar equations; sequences and infinite series; introduction to differential equations and to vectors. (*UC Transfer Limit: MATH 131 and 160 combined: maximum credit, one course)

MATH 188 — Trigonometry Refresher  
(1)  
Hours: 18 lecture  
Short course intended for students who wish to review trigonometry topics before or while taking calculus or higher courses. A computer program is used to refresh concepts identified as needed for each student, plus weekly contact with the instructor. This course is in no way intended to replace MATH 138.

MATH 197 — Workshop for Pre-calculus  
(1)  
Prerequisites: MATH 111 or 120 with a “C” or better or qualifying score on SBCC placement exam  
Corequisites: Concurrent enrollment in MATH 137 or 138  
Hours: 54 lab  
Supplementary problem-solving course designed for students currently enrolled in MATH 137 or 138.
MATH 199 — Workshop for Calculus
(1)
Prerequisites: MATH 138 or 150 with a “C” or better or qualifying score on SBCC placement exam.
Corequisites: Concurrent enrollment in MATH 150 or 160
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 lab
Supplementary problem-solving course designed for students currently enrolled in MATH 150 or 160.

MATH 199A — Workshop for Precalculus I
(1)
Prerequisites: MATH 107 or 111 with minimum grade of “C”
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 lecture
Supplementary problem-solving course designed for students currently enrolled in Precalculus I.

MATH 199B — Workshop for Precalculus II
(1)
Prerequisites: MATH 107 or 111 with minimum grade of “C”
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 lecture
Supplementary problem-solving course designed for students currently enrolled in Precalculus II.

MATH 199C — Workshop for Calculus I
(1)
Prerequisites: MATH 107 or 111 with minimum grade of “C”
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 lecture
Supplementary problem-solving course designed for students currently enrolled in Calculus I.

MATH 199D — Workshop for Calculus II
(1)
Prerequisites: MATH 107 or 111 with minimum grade of “C”
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Supplementary problem-solving course designed for students currently enrolled in Calculus II.

MATH 200 — Multivariable Calculus
(4) — CSU, UC
Prerequisites: MATH 160 with a “C” or better.
Hours: 72 lecture
Functions of several variables, multiple integrals and applications, partial differentiation and applications, calculus of vector functions, Green’s Theorem, Stokes’ Theorem and Divergence Theorem.

MATH 210 — Linear Algebra
(4) — CSU, UC
Prerequisites: MATH 160 with a “C” or better.
Hours: 72 lecture
Finite dimensional vector spaces, linear independence, basis, systems of linear equations, linear transformations, matrices, LU factorization, change of basis, similarity of matrices, eigenvalues and eigenvectors, diagonalization, applications, quadratic forms, symmetric and orthogonal matrices, canonical forms; and introduction to infinite dimensional vector spaces.

MATH 220 — Differential Equations
(4) — CSU, UC
Prerequisites: MATH 200 and 210 with a minimum grade of “C”.
Hours: 72 lecture
Theory and applications of ordinary and partial differential equations. Topics include constant coefficient equations, series techniques, introduction to Laplace transforms, qualitative and quantitative solutions to linear and nonlinear systems of differential equations, and separable partial differential equations.

MATH 295 — Internship in Mathematics
(2-4) — CSU
Prerequisites: MATH 107 or 111 with a “C” or better or qualifying score on SBCC placement exam.
Limitation on Enrollment: Completion of two courses in the Mathematics Department at SBCC prior to enrolling in an internship course.
Five to 10 hours weekly on-the-job experience.
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 108-273 lab
Structured internship program in which students gain experience in community organizations related to the discipline.
Medical Imaging Sciences

Degree and Certificate
Associate in Science Degree: Radiography
Certificate of Achievement: Diagnostic Medical Sonography

Program Description
Radiology Program is a continuous 24-month program which begins each year in the Summer semester. The program is designed to prepare a radiographer to perform diagnostic procedures in a Medical Imaging Sciences department, as well as other health settings. The program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT), (312) 704-5300, and the California Department of Public Health, (916) 323-2786. JRCERT accreditation qualifies all graduates of the Radiology Program to take the American Registry of Radiologic Technology (ARRT), Diagnostic Radiography Certification Examination (provided they have not been convicted of a felony), and the California Department of Public Health fluoroscopy examination. Anyone convicted of a misdemeanor or felony may not qualify to take the ARRT certification exam. It is highly recommended that if you have a conviction on your record that you directly contact the ARRT for eligibility (651) 687-0048 ext. 8580.

Courses are arranged in a meaningful sequence and must be taken in the order planned. Progression toward and completion of the Associate Degree requires the attainment of a minimum grade of “C” in all program and adjunct courses. (See “Department Requirements” to follow.) Campus classes provide theory and laboratory practice, which are correlated with clinical experience in the medical imaging sciences departments of affiliated institutions. A prescribed, regulation uniform is worn during clinical assignments. Students must provide their own transportation to all facilities and must be willing to travel 100 miles each way to the various clinical sites. Students are required to complete four clinical site rotations at any of the 15 affiliate sites they are assigned to. Clinical site locations extend from Santa Paula to San Luis Obispo. There is no guarantee that the clinic site will be in their city of residence. Any student that misses 10% or more of the clinical portion of the program, in a given semester, is subject to dismissal pending faculty review.

All students are required to pass a physical exam, background check, and drug screening. If at any time before or after acceptance into the program, the student’s conduct or physical or emotional health is such that there is potential threat to the well-being of patients, the applicant will be denied admission to, or be withdrawn from, the major. In addition to the policies and standards of Santa Barbara City College, Health Technologies programs have policies and requirements based on the professional standards and guidelines of their individual regulating state and national accrediting boards. These policies, including our pregnancy policy are available online at www.sbcc.edu/radiology.

Mission Statement
The mission of the Associate in Science Degree program is to educate students to become competent radiographers who can serve the needs of a diverse patient population in an ethical and compassionate manner. Our basics goals are to

1. Graduate students that are clinically and technically prepared to enter the current job market.
2. Graduate students that are professional and ethical.
3. Graduate students that communicate effectively in the work care setting.
4. Graduate students that demonstrate clinical thinking and problem-solving skills in the performance of their duties.

Program Student Learning Outcomes
1. Radiation Protection: Students are able to apply the principles of radiation protection as required by the state and federal agencies.
2. Equipment Operation and Quality Control: Students are able to safely operate and perform quality control measurements on radiographic equipment.
3. Image Production and Evaluation: Students are able to evaluate radiographic images for proper anatomy, positioning and technical factors.
4. Radiographic Procedures: Students are able to perform radiographic procedures on various anatomical regions based on physical and pathologic conditions.
5. Patient Care and Education: Students are able to apply the principles of oral, written and verbal communication to effectively deliver patient care.
Department Offices
Health Technologies Office (A-218, ext. 2366)
Lorraine Michalak, Application Secretary

Faculty and Offices
Bruce Oda, M.A.O.L RT (R) Chair/Director
(A-213, ext. 4374)
Danielle Terveen MBA, RT (R), RDMS, RVT
Clinical Coordinator (A-213, ext. 3761)
Trudy Ryan, B.S.R.T RT (R), (CT), (MR)
Instructor/Clinical Supervisor (A-213, ext. 3725)

Department Requirements (73.6 units)
AH 120* — Medical Technology .........................1
RT 101 — Introduction to Radiography ..................2.3
RT 102 — Fundamentals of Radiographic
Positioning and Procedures I ...........................4
RT 103 — Fundamentals of Radiographic
Positioning and Procedures II ..........................4
RT 109 — Principles of Radiographic Exposure ....3
RT 111 — Advanced Principles of Exposure .........3
RT 119 — Radiological Technology ....................3
RT 120 — Patient Care in Radiography ...............3
RT 191 — Radiographic Technology
Clinical Practicum 1 ..................................5.7
RT 191A — Radiographic Technology Clinical
Practicum 1A ........................................2.1
RT 192 — Radiographic Technology:
Clinical Practicum 2 ..................................5.1
RT 202 — Advanced Radiographic Procedures ....3
RT 203 — Radiology Certification Preparation ....4
RT 220 — Radiation Biology and Protection .......3
RT 230 — Radiographic Pathology .....................3
RT 250 — Principles and Applications of
Cross-Sectional Anatomy in Imaging ...............2
RT 293 — Radiographic Technology:
Clinical Practicum 3 ..................................6.7
RT 294 — Radiographic Technology:
Clinical Practicum 4 ..................................7.1
RT 295 — Radiographic Technology:
Clinical Practicum 5 ..................................8.6

*Note: HIT 135 has been approved by the Radiography
Department as a possible substitute for AH 120.

Complete each course with a minimum grade of “C”
or better.

Recommended Elective:
RT 251 — Principles of Mammography and Procedures ......2
RT 290 — Work Experience in Radiography ................1-4

College Requirements
For complete information, see “Graduation
Requirements” in the Catalog Index.

Admission Requirements
1. Obtain application in person from the Health
2. Eligibility for ENG 110 or 110H — Composition
and Reading.
3. Eligibility for MATH 104 or 107 or 111 —
Intermediate Algebra.
4. Complete BMS 107, Human Anatomy (4 units),
and BMS 108, Human Physiology (4 units), or
equivalent, with a grade of “C” or better.

Before entering the program, applicant will be
required to:
1. Complete RT 100;
2. Attend a program Orientation meeting;
3. Complete a physical examination, including
immunizations and/or titers (must be on the SBCC
physical exam form which will be provided);
4. Obtain a CPR card—must be kept current
throughout the program;
5. Pay required badge and materials fees;
6. Pass a criminal background check and drug
screening examination; and
7. Students will need a valid, government-issued Social
Security card prior to testing for the ARRT and CRT
board exams after the completion of the program.

Failure to comply with any of the above requirements
will make the student ineligible for admission to the
program.

Refresher Students
Refresher students are those who are certified as
radiographers in California and who want to participate
in one or more SBCC Radiographic and Imaging
courses. In most cases, this will be done because
of a time lapse since being actively exposed to the practice of radiography. To participate in the program, call ext. 2366 for information.

**Recommended Program**

**First Year**

**Summer Session**
Radiography 101

**Fall**
Radiography 102
Radiography 109
Radiography 120
Allied Health 120
Radiography 191
General Ed. course*

**Winter Intersession**
Radiography 191A

**Second Year**

**Summer Session**
Radiography 293
General Ed. course*

**Fall**
Radiography 220
Radiography 230
Radiography 250
Radiography 251
Radiography 294
General Ed. course*

**Spring**
Radiography 202
Radiography 203
Radiography 295
General Ed. course*

*For a complete listing of General Education requirements, pick up a requirement sheet in the Counseling Center or see “Graduation Requirements” in this Catalog.

**Radiographic and Imaging Sciences Courses**

**RT 100 — Radiography and Health Care**

(2.0) — CSU
**Hours:** 36 lecture

Introduction, overview and orientation for those interested in exploring radiographic imaging or other health care careers. Completion of this course and the prerequisites satisfy departmental requirements for entry into the Radiography Associate Degree Program.

**RT 101 — Introduction to Radiography**

(2.3) — CSU
**Prerequisites:** RT 100
**Limitation on Enrollment:** Passing criminal background check, pass a physical exam, valid CPR card.
**Hours:** 54 (36 lecture, 18 lab)

Orientation to radiography, providing students with entry-level information and skills to begin practice in an X-ray department. Topics include ethics, darkroom techniques, introduction to fluoroscopy, lab practice, basic radiation protection and patient care. Course concludes with a one-day orientation to an X-ray department.

**RT 102 — Fundamentals of Radiographic Positioning and Procedures I**

(4) — CSU
**Prerequisites:** RT 101
**Hours:** 108 (54 lecture, 54 lab)

Precise and detailed information on routine radiographic procedures of the chest, abdomen, appendicular skeleton and vertebral column. Portable and traumatic exams also included.

**RT 103 — Fundamentals of Radiographic Positioning and Procedures II**

(4) — CSU
**Prerequisites:** RT 102 with a “C” or better.
**Hours:** 108 (54 lecture, 54 lab)

Basic principles of positioning for the axial skeleton to include vertebral column, skull, facial bones, contrast procedures for the gastrointestinal and genitourinary tract.

**RT 109 — Principles of Radiographic Exposure**

(3) — CSU
**Prerequisites:** RT 101
**Hours:** 54 lecture

Provides first-year radiography students with the basic principles of image production, exposure techniques, photographic and geometric factors, computed and digital radiographs, and radiation protection.

**RT 111 — Advanced Principles of Exposure**

(3) — CSU
**Prerequisites:** RT 109
**Hours:** 54 lecture

Principles of X-ray production are examined, with the effect of image production with film and digital image systems. Principles of digital system quality control and maintenance are also discussed.
RT 119 — Radiological Technology
(3) — CSU
Skills Advisories: MATH 4 and Eligibility for ENG 110 or 110H
Limitation on Enrollment: Concurrent enrollment in the Radiographic Program or employment in the field.
Hours: 54 lecture
Designed specifically for radiation physics. The primary focus is on the fundamental concepts of energy and measurement, atomic structure, molecules, electricity, magnetism, electromagnetism, X-ray tubes, production, emission and interactions.

RT 120 — Patient Care in Radiography
(3) — CSU
Hours: 54 lecture
Provides the student with the concepts of patient care. Routine and emergency patient care procedures are described. Also included are topics on venipuncture and contrast media/medication administration. The role of the radiographer in patient care administration identified. Aspects of death and dying reviewed.

RT 121 — Venipuncture in Radiography
(0.6) — CSU
Hours: 11 lecture
Provides the student with concepts of venipuncture and contrast media/medication administration. The role of the radiographer in administration of contrast media, legal aspects of contrast media injection, anatomy and physiology related to IV injections are covered.

RT 191 — Radiographic Technology
Clinical Practicum 1
(5.7) — CSU
Prerequisites: RT 101
Hours: 312 lab
Introduction to clinical settings and exposure to departmental organization; patient flow; CR and PACs; observation of techniques employed; and policies and procedures of clinical cases. The student performs basic radiographic procedures under direct supervision.

RT 191A — Radiographic Technology
Clinical Practicum 1A
(2.1) — CSU
Hours: 112 lab
Designed to give each advanced student the opportunity to improve on clinical skills, as well as accumulate the clinical hours required by the California Department of Health.

RT 192 — Radiographic Technology
Clinical Practicum 2
(5.1) — CSU
Prerequisites: RT 191
Hours: 272 lab
Second in a series of clinical education courses. Student is assigned 17 hours per week at a clinical education center. During this supervised experience, the student observes and performs diagnostic radiographic procedures. The student must demonstrate competency in recently taught radiographic exam, as well as in the exams previously evaluated.

RT 202 — Advanced Radiographic Procedures
(3) — CSU
Prerequisites: RT 103
Hours: 54 lecture
Provides the advanced student with a survey of advanced imaging and an introduction to other specializations in the radiation sciences. It concludes with an introduction to special invasive procedures, especially those dealing with the heart/vascular system.

RT 203 — Radiology Certification Preparation
(4)
Hours: 72 lecture
Review of those subjects deemed critical for the ARRT examination. Consists of lectures, both by the instructor and guest, simulated registry examinations and a computer-assisted learning program.

RT 220 — Radiation Biology and Protection
(3) — CSU
Hours: 54 lecture
Fluoroscopic imaging systems, digital and conventional image intensification, radiation safety regulations, and quality control methods are discussed. Course is approved by the DPHS and prepares students for the California State Fluoroscopy Examination. Radiation biology, dose-effect relationships, and long-term somatic and genetic effects of radiation exposure are covered.
RT 230 — Radiographic Pathology
(3) — CSU
*Hours: 54 lecture*
Introduction to more advanced pathological conditions for second-year students. Differentiates normal radiographic anatomy from pathologic conditions. Encompasses both the anatomy and physiology of each pathologic condition. Students expected to identify, evaluate and present common pathologic conditions throughout the course.

RT 240 — Fluoroscopic Imaging and Radiation Protection
(3) — CSU
*Hours: 54 lecture*
Introduction to the fluoroscopic imaging system and methods of reducing public and occupational dose. Biological effects of high-dose radiation, interactions of ionizing radiation, and state and federal regulations pertaining to protection discussed. Prepares students for National Certification and the California Fluoroscopy Permit Exam.

RT 250 — Principles and Applications of Cross-Sectional Anatomy in Imaging
(2) — CSU
*Hours: 36 lecture*
Provides an understanding of cross-sectional anatomy and knowledge of the relationships of human organs to each other as they appear in the sagittal, coronal and axial plane. The practical applications of cross-sectional with CT, MRI and ultrasound are emphasized.

RT 251 — Principles of Mammography and Procedures
(2) — CSU
*Hours: 36 lecture*
Prepares the radiographer for state and national certification in mammography. Content covers the anatomy and physiology of the breast, positioning, radiation biology and protection, and QA and QC regulations for mammography equipment.

RT 290 — Work Experience in Radiography
(1-4) — CSU
*Limitation on Enrollment: Enrollment in a Radiology course, or current California Radiologic Technology license and at least one year’s experience as a licensed Radiologic Technologist in a medical establishment within the preceding three years.*
*Hours: 60-240 lab*
Consists of supervised on-the-job work experience for students whose radiology career objectives and course of study or employment complement each other. Students must accomplish specific course objectives. Class meetings are scheduled each semester.

RT 293 — Radiographic Technology Clinical Practicum 3
(6.7) — CSU
*Prerequisites: RT 192*
*Hours: 360 lab*
Third in a series of clinical experiences requiring 40 hours per week for nine weeks in the clinical setting. This rotation allows the student opportunity to enhance basic skills, positioning techniques, patient care and understanding of clinical operations. The student must demonstrate continued competency in those exams previously mastered and additional competencies throughout the semester.

RT 294 — Radiographic Technology Clinical Practicum 4
(7.1) — CSU
*Prerequisites: RT 293*
*Hours: 384 lab*
Fourth in a series of clinical education courses to increase technical and clinical proficiency in routine and advanced X-ray procedures under supervision of the clinical coordinator/clinical instructor and departmental radiographers. The student must demonstrate competency of recently taught radiographic exams, plus continued competency of exams previously evaluated.

RT 295 — Radiographic Technology Clinical Practicum 5
(8.6) — CSU
*Prerequisites: RT 294*
*Hours: 464 lab*
Fifth in a series of clinical education courses to increase technical and clinical proficiency in routine and advanced X-ray procedures under supervision of the clinical coordinator/clinical instructor and departmental radiographers. The student must demonstrate competency of recently taught
radiographic exams, plus continued competency of exams previously evaluated.

RT 298 — Diploma Radiography Credit
(30) — CSU
Skills Advisories: MATH 107 and Eligibility for ENG 110 or 110H
Provides an opportunity for registered (ARRT/CRT) radiographers currently licensed in California who have graduated from diploma programs to receive 30 units of program credit toward an Associate Degree. Prior academic and clinical background is assessed by the Program Chairperson before credit is granted.

RT 299 — Independent Study in Radiography
(1-4) — CSU
Course Advisories: RT 103
Limitation on Enrollment: Completion of a minimum of 12 units at SBCC, with a 2.5 GPA, and a minimum of 6 units, with a 3.0 GPA within the department.
One to three hours of work/conference time per week to be coordinated with number of enrolled units.
Hours: 54-216 lab
Independent research in radiography under the guidance of a sponsoring faculty member. The project to be consistent with the ability and interest of the student and may be conducted in the laboratory and/or the field. Each unit of credit is equal to three hours of work.

Note: Continuation in the clinical area on a full-time basis will take place after graduation. This is done in order to complete the 24-month program requirement and will terminate upon the student’s anniversary date.

Sonography

Program Description
The Diagnostic Medical Sonography Program (DMS) is a continuous 21-month program which begins every other Fall semester. The program is accredited by the Commissions on Accreditation of Allied Health Education Programs (CAAHEP) as a general concentration program. With the general concentration, students will be able to perform sonographic examinations of the abdomen, superficial structures, non-cardiac chest, and the gravid and nongravid pelvis. CAAHEP accreditation qualifies all graduates of the DMS program to take the American Registry for Diagnostic Medical Sonography (ARDMS) Sonographic Principles and Instrumentation Examination, Abdomen examination, and Obstetrics and Gynecology Examination. Anyone convicted of a misdemeanor or felony may not qualify to take the ARDMS certification exam. It is highly recommended that if you have a conviction on your record that you directly contact the ARDMS for eligibility, (800) 541-9754, ext. 1.

Courses are arranged in a meaningful sequence and must be taken in the order planned. Progression toward and completion of the Certificate requires the attainment of a minimum grade of “C” in all program and adjunct courses. (See Entrance Requirements and Required Core Courses to follow.) Campus classes provide theory and laboratory practice, which are correlated with clinical experience in the medical imaging departments of affiliated institutions. A prescribed, regulation uniform is worn during clinical assignments. Students must provide their own transportation to all facilities and must be willing to travel 100 miles each way to the various clinical sites. Students are required to complete two clinical rotations at any of the 15 affiliate sites they are assigned to. Clinical site locations extend from Templeton to Mission Hills. There is no guarantee that the clinical site will be in their city of residence. Any student that misses 10% or more of the clinical portion of the program, in a given semester, is subject to dismissal pending faculty review.

All students are required to pass a physical exam, background check, and drug screening. If at any time before or after acceptance into the program, the student’s conduct or physical or emotional health is such that there is potential threat to the well-being of patients, the applicant will be denied admission to, or be withdrawn from, the major. In addition to the policies and standards of Santa Barbara City College, Health Technologies programs have policies and requirements based on the professional standards and guidelines of their individual regulating state and national accrediting boards. These policies, including our pregnancy policy are available online at www.sbcc.edu/sonography.

Department Offices
Health Technologies Office (A-218, ext. 2366)
Lorraine Michalak, Application Secretary
(A-218, ext. 2366)
Debra von Bernuth, B.A., RDMS, RVT
Nick Spina, B.A., R.T.(R), RDMS
Entrance Requirements
Before entering the DMS Program, students who have formally accepted are required to:
1. Attend a DMS orientation meeting the semester prior to entry; (time and date will be announced)
2. Complete the SBCC physical examination on SBCC form including immunizations and/or titers;
3. Submit results of a TB skin test, with annual updating
4. Obtain a CPR card, which must be kept current throughout the program;
5. Pass a criminal background check
6. Pass a drug screening test

Application Procedure
Submit the following to:
SBCC Health Technologies Office:
• Completed DMS application
• A copy of professional license
• Official transcripts

Certificate Requirements for Diagnostic Medical Sonography
Prerequisites
1. Completion of a two-year allied health education program that is patient-care related: Radiographic Radiologic Technologist (R), Respiratory Therapist (RT), Registered Nurse (RN), Occupational Therapist (OT), Physical Therapist (PT). Program must have been full-time, 24 months that included six months clinical experience. or
2. A Bachelor’s Degree or
3. Medical Doctor (MD) or Doctor of Osteopathy (DO) degrees from outside of the U.S., equivalent to those of the U.S. and Canada

In addition to one of the above, the following prerequisites must be completed before applying to the program with a passing grade of “C” or better:
• Anatomy (e.g., BMS 107)
• Physiology (e.g., BMS 108)
• Algebra, statistics, or higher mathematics course (e.g., MATH 117, PSY 150, MATH 120 or higher)
• General Physics (e.g., PHYS 101, 102, or higher Physics or RT 119 if completed a radiology program)
• Communication (e.g., ENG 110 or 110H, or COMM 131 or 131H)

The following must be completed with a passing grade of “C” or better prior to the commencement of DMS 148
• Medical Terminology (e.g., HIT 135)
• Patient Care (e.g., RT 120) offered fall semester at SBCC.
• Cross Sectional Anatomy (e.g., RT 250) offered fall semester at SBCC

*Note: RT 120 and 250 can be taken the fall semester prior to starting the program

Required Core Courses (53.8 units)
RT 250 — Principles and Applications of Cross-Sectional Anatomy in Imaging........................................2
DMS 150 — Physics and Instrumentation.................................3
DMS 155 — Abdominal and Small Parts Scanning..................3
DMS 156 — OB/GYN Scanning................................................2.7
DMS 160 — Pathophysiology..................................................3
DMS 165 — Abdominal/Small Parts Scan. and Pathol...............3
DMS 170 — Introduction to Vascular Ultrasound.................4
DMS 182 — Clinical Experience 1........................................9
DMS 183 — Clinical Experience 2........................................9.5
DMS 184 — Clinical Experience 3........................................2.4
DMS 185 — Clinical Experience 4.......................................8.5
DMS 250 — Sonography Interpretation...............................3

Length of Program
This is a 21-month Certificate program in which courses are arranged in a meaningful sequence and must be taken in the order planned. The program begins every other year with the start of the college’s Fall Semester.

First Year
Fall Semester
RT 120 — Patient Care in Radiography..............................3
RT 250 — Principles and Applications of Cross-Sectional Anatomy in Imaging...........................................2
DMS 150 — Physics and Instrumentation.................................3
DMS 155 — Abdominal and Small Parts Scanning..............3

Spring Semester
DMS 156 — OB/GYN Scanning................................................2.7
DMS 160 — Pathophysiology..................................................3
DMS 165 — Abd and Small Parts Scanning
and Pathology ........................................... 3

Summer Semester
DMS 148 — Clinical Experience 1A ......................... 4.4
DMS 149 — Clinical Experience 1B ......................... 4.4

Second Year
Fall Semester
DMS 166 — OB/GYN Scanning and Pathology .......... 2
DMS 170 — Introduction to Vascular Ultrasound ....... 4
DMS 183 — Clinical Experience 2 ......................... 9.5

Winter Intersession
DMS 184 — Clinical Experience 3 ......................... 2.4

Spring Semester
DMS 250 — Sonography Interpretation .................. 3
DMS 185 — Clinical Experience 4 ......................... 8.5

Program Cost and Outcome
For planning purposes, the following webpage provides
information on the cost of attendance, program length
(assuming a student attends full-time), financing options
and historical student completion rates:
www.sbcc.edu/financialaid/gainfulemployment/
Diagnostic%20Medical%20Sonography.htm

Diagnostic Medical
Sonography Courses
DMS 148 — Clinical Experience 1A
(4.4) — CSU
Prerequisites: DMS 165 with a minimum grade of “C”
Hours: 240 lab
Introduction to the clinical setting and exposure to
departmental organization, policies and procedures,
patient flow and observation of clinical case techniques
and protocols.

DMS 149 — Clinical Experience 1B
(4.4) — CSU
Prerequisites: DMS 148 with a minimum grade of “P”
Hours: 240 lab
Continuation of clinical experience. Exposure to
departmental organization, policies and procedures,
patient flow and observation of clinical case techniques
and protocols.

DMS 150 — Physics and Instrumentation
(3) — CSU
Limitation on Enrollment: Completion of 24 month
 allied health education program that is patient-care
related and included 6 months clinical experience:
Radiographic/Radiologic Technician (RT), Respiratory
Therapist (RT), Registered Nurse (RN), Occupational
Therapist (OT), Physical Therapist (PT), etc.) or
Bachelor’s degree with the following prerequisites:
Anatomy (i.e. BMS 107) 4 units, Physiology (i.e. BMS
108) 4 units, Medical Term. (i.e. AH 120) 1 unit, Patient
Care (i.e. RT 120) 2 units or Medical Doctor (MD) or
Doctor of Osteopathy (DO) degrees from in or outside
the U.S., equivalent to those of the U.S. and Canada
Hours: 54 lecture
Introduction to the basic acoustical physics and
acoustical waves in human tissue. Emphasis is on
ultrasound transmission in soft tissues, attenuation
of sound energy, parameters affecting sound
transmission and resolution of sound beams.

DMS 155 — Abdominal and Small Parts Scanning
(3) — CSU
Limitation on Enrollment: Health and Safety regulation.
Hours: 90 (36 lecture, 54 lab)
Interpretation of normal anatomy, sonographic and
gross anatomy, demonstrating scanning techniques
and identifying normal sonographic protocols for
abdomen and small parts.

DMS 156 — OB/GYN Scanning
(2.7) — CSU
Prerequisites: DMS 155 with a minimum grade of “C”
RT 120 with a minimum grade of “C” RT 250 with a
minimum grade of “C”
Hours: 72 (36 lecture, 36 lab)
Interpretation of normal anatomy, sonographic and
gross anatomy, demonstrating scanning techniques and
identifying normal sonographic protocols for OB/GYN.
DMS 160 — Pathophysiology  
(3) — CSU  
Prerequisites: DMS 150 with a minimum grade of “C”  
DMS 155 with a minimum grade of “C”  
Hours: 54 lecture  
Specific study of pathology and pathophysiological mechanisms related to diagnostic medical sonography.

DMS 165 — Abdominal and Small Parts Scanning and Pathology  
(3) — CSU  
Prerequisites: DMS 155 with a minimum grade of “C”  
DMS 150 with a minimum grade of “C”  
Hours: 72 (36 lecture, 36 lab)  
Interpretation of normal and abnormal anatomy of abdomen and small parts. Sonographic and gross anatomy, comparing one disease to another. Identification of pathophysiological anatomic structures in various sonographic planes and images.

DMS 166 — OB/GYN Scanning and Pathology  
(2) — CSU  
Prerequisites: DMS 156 with a minimum grade of “C”  
DMS 160 with a minimum grade of “C”  
DMS 165 with a minimum grade of “C”  
DMS 182 with a minimum grade of “P”.  
Hours: 36 lecture  
Interpretation of normal and abnormal OB/GYN anatomy, sonographic and gross anatomy, comparing one pathological condition to another. Identification of pathophysiological anatomic structures in various sonographic planes and images.

DMS 170 — Introduction to Vascular Ultrasound  
(4) — CSU  
Prerequisites: DMS 150 with a minimum grade of “C”  
DMS 182 with a minimum grade of “P”  
DMS 165 with a minimum grade of “C”  
DMS 160 with a minimum grade of “C”.  
Hours: 108 (54 lecture, 54 lab)  
Introduction to Doppler (color flow), with a hands-on approach. Overview of normal and pathological sonographic data: arterial and venous peripheral vascular, abdominal vasculature, and extracranial carotid.

DMS 183 — Clinical Experience 2  
(9.5) — CSU  
Prerequisites: DMS 182  
Hours: 512 lab  
Continuation of clinical experience. Exposure to departmental organization, policies and procedures, patient flow, observation of clinical case techniques and protocols. Beginning hands-on experience and equipment set-up.

DMS 184 — Clinical Experience 3  
(2.4) — CSU  
Prerequisites: DMS 183, 166 and 170  
Hours: 128 lab  
Clinical experience in ultrasound: equipment handling, patient management, as well as departmental operations and scope.

DMS 185 — Clinical Experience 4  
(8.5) — CSU  
Corequisites: DMS 184 with a minimum grade of “P”  
Hours: 460 lab  
Advanced clinical experience, including sonographic study of the abdomen, small parts and pelvis, as well as OB/GYN exams to identify normal anatomy and pathologic conditions.

DMS 250 — Sonography Interpretation  
(3) — CSU  
Prerequisite: DMS 184 with a minimum grade of “P”  
Hours: 54 lecture  
Interpretation and critique of normal anatomy with correlation of didactic, clinical presentations and critiques. Written and oral case presentations, with emphasis on OB/GYN subjects.

DMS 290 — Work Experience in Sonography  
(1-4) — CSU  
Limitation on Enrollment: Enrollment in a Sonography course, or current Sonography license and at least one year’s experience as a licensed Sonographer in a medical establishment within the preceding three years.  
Hours: 60-300 lab  
Consists of supervised on-the-job work experience for students whose sonography career objectives and course of study or employment complement each other. Students must accomplish specific course objectives.
School of Modern Languages
(Formerly Foreign Languages)

Degree
Associate in Arts Degree: American Sign Language
Associate in Arts Degree: French
Associate in Arts Degree: Spanish
Associate in Arts Degree (AA-T): Spanish for Transfer

Program Description
We live in a world of economic, industrial, technological and political interrelationships where skills in languages other than English are useful and needed. Languages are the key to the understanding and appreciation of value systems and social attitudes of different cultures. Furthermore, acquiring communication skills in other languages facilitates the exchange of ideas and transactions, and increases awareness, appreciation and understanding of cultural diversity.

The need for skills in other languages is evident on a daily basis. The global community has reached a level of human relations where languages skills are required for communication in all aspects of life. Whether for recreational purposes, business, or other endeavors such as politics, health, science, education, art, or government, learning another language is imperative.

On a practical level, learning a new language is an intellectual stimulus that helps the learner develop critical thinking and creative skills, while enhancing the individual’s participation in traveling, reading of literature, appreciation of music, fashion, cuisine, cinema, and even sporting events. And last, but not least, opportunities for employment and higher salaries increase when another language is mastered because it gives you an edge to compete in the global economy.

Program Student Learning Outcomes

American Sign Language
1. Demonstrate competency in American Sign Language expressive and receptive skills.
2. Demonstrate competency in visual gestural communication and finger-spelling.
3. Recognize what is required to support American Sign Language as the visual language of the Deaf community.
4. Demonstrate knowledge of the culture and cultural practices of the Deaf community.
5. Display appropriate sociolinguistic behaviors as proficient users of American Sign Language.

French
1. Demonstrate high command of oral, visual and written communication skills in the target language.
2. Exchange ideas and interact effectively with speakers of the target language.
3. Discern and uphold the relevancy of cultural and linguistic diversity lived and expressed by the speakers of the target language.

Spanish
1. Demonstrate high command of oral, visual and written communication skills in the target language.
2. Exchange ideas and interact effectively with speakers of the target language.
3. Discern and uphold the relevancy of cultural and linguistic diversity lived and expressed by the speakers of the target language.

Department Office
Administrative Office (H-323, ext. 3575)
Dina Castillo, Chair (H-323, ext. 3575)
Marilynn Spaventa, Dean (A-116, ext. 3625)

Honors and Awards
Outstanding Students
Each Spring Semester at the Outstanding Students Awards Banquet, two students are celebrated as distinguished Modern Languages students. Selections are made on the basis of academic excellence and linguistic achievement.

Claire Brossoit Hoffner Scholarship for Study of the French Language
Claire Hoffner, a dedicated French instructor at SBCC from 1967 to 1991, has established this scholarship to provide support and encouragement to motivated students who are studying the French language. It is available to students studying French in SBCC’s School of Modern Languages. Applicants must carry nine (9) or more units and be enrolled in at least one (1) French
language course each semester. They must maintain a minimum overall GPA of 3.0 and be U.S. citizens. They may be entering, continuing, re-entering, or transferring students. Recipients may use the award for tuition, fees, books, and/or expenses of living, childcare, transportation, and/or travel costs. Applications are available in the Financial Aid Office (SS-217).

Luria Japanese Language Scholarships
Awarded to students enrolled in Japanese language classes with financial need. Applicants do not need to be full-time students. Preference is given to non-native Japanese students. There is no minimum GPA requirement. Three awards each semester are $100 each. Applications are available in the Financial Aid Office (SS-217).

Francisco Moreno Santacruz Memorial Scholarship
This scholarship is available to transfer students who intend to study Spanish at a four-year college or university immediately following graduation from SBCC, with the goal of either a major or a minor in Spanish language studies. Applicants must carry at least twelve (12) units and maintain a minimum overall GPA of 3.0 and a minimum GPA of 3.5 in their Spanish language studies. Applicants may be U.S. citizens, international students, or have permanent resident status. Recipients must use the award for tuition, fees, books, and/or expenses of living, childcare, transportation, and/or travel related to the Spanish language. Selection shall include review of a standard scholarship application and personal essay. Award of this scholarship is based solely on academic achievement. Applications are available in the Financial Aid Office (SS-217).

The Rotary Club of Montecito Foundation Scholarship for the Study of Chinese Language
This scholarship is intended to provide support and encouragement to students who demonstrate an ability and enthusiasm to learn Chinese (Mandarin). Preference given to students with financial need in the broadest terms. Minimum GPA required: 2.5. Two awards each semester. Applications are available in the Financial Aid Office (SS-217).

American Sign Language Courses

American Sign Language, or ASL, is the dominant sign language of Deaf Americans, including Deaf communities in the United States and in some regions of Canada and Mexico. It contains phonology, morphology, semantics, syntax and pragmatics just like spoken languages. It is both a manual and a visual language; the information is encoded with the shape and movement of the hands and other parts of the body and also with facial expressions, including mouth morphemes.

AA Degree: American Sign Language

Department Requirements (28 units)
ASL 101 — Beginning American Sign Language I ............5
ASL 102 — Beginning American Sign Language II ............5
ASL 103 — Intermediate American Sign Language I ..........5
ASL 104 — Intermediate American Sign Language II ........4
ASL 125 — American Deaf Culture and History .............4
ASL 130 — Intermediate ASL Conversation I ..............2

Plus a one semester course from the following:
ASL 110 — Intro to ASL/English interpretation or ..........2
ASL 111 — Fingerspelling and Numbers I or ..........2
ASL 112 — Fingerspelling and Numbers II or ..........2
ASL 115 — Classifiers or ..................................2
ASL 140 — Intermediate ASL Conversation II ............2

College Requirements
For complete information, see “Graduation Requirements” in the Catalog Index.

Planning a Program of Study
Since students majoring in American Sign Language do so with a variety of objectives, a program of study should be planned with the help of the college counselor for the School of Modern Languages and the chairperson of the department. Transfer students are urged to consult the current catalog of the institution they plan to attend.

Sample Program
For a sample program, consult the catalog of the transfer institution of your choice.

Preparation for Transfer
Course requirements for transfer vary depending upon the college or university a student wishes to attend. Therefore, it is important for a student to consult with
his/her counselor and departmental adviser before planning an academic program for transfer. Information sheets for majors, outlining transfer requirements, are available in the Counseling Center.

**ASL Courses**

**ASL 101 — Beginning American Sign Language I**  
(5) — CSU, UC  
*Skills Advisories: Eligibility for ENG 110 or 110H*  
*Hours: 90 lecture*

Introduces the use of American Sign Language (ASL), its grammatical rules, and cultural aspects of the deaf community. Emphasis is on building beginning receptive and expressive sign vocabulary, appropriate grammatical and affective facial expressions, syntax, and body modifiers. Study group participation and attendance at deaf events required.

**ASL 102 — Beginning American Sign Language II**  
(5) — CSU, UC  
*Prerequisites: ASL 101 or two years of high school ASL with a minimum grade of “C” or qualifying score on SBCC SoML placement exam.*  
*Skills Advisories: Eligibility for ENG 110 or 110H*  
*Hours: 90 lecture*

Continues the basic foundations established in ASL 101. Covers the appropriate use of American Sign Language linguistic parameters, syntax, sentence types, facial expression and body language, sign space, pronominalization, nouns/verbs, time line, classifiers/SASSes, pluralizations, deaf culture, fingerspelling and cardinal and ordinal numbers. Study group work and attendance at deaf events is required.

**ASL 103 — Intermediate American Sign Language I**  
(5) — CSU, UC  
*Prerequisites: ASL 102 or three years of high school ASL with a minimum grade of “C” or qualifying score on SBCC SoML placement exam.*  
*Skills Advisories: Eligibility for ENG 110 or 110H*  
*Hours: 90 lecture*

Continues the study of American Sign Language, with expanded information on ASL grammar, syntax, spatial referencing, and vocabulary development. Dialogues, short stories, narratives and short conversations focus on discussion of deaf culture and descriptions of people and surroundings. Study group participation and attendance to deaf events required.

**ASL 104 — Intermediate American Sign Language II**  
(5) — CSU, UC  
*Prerequisites: ASL 103 or four years of high school ASL with a minimum grade of “C” or qualifying score on SBCC SoML placement exam.*  
*Skills Advisories: Eligibility for ENG 110 or 110H*  
*Hours: 90 lecture*

Builds on ASL grammatical, syntactical, temporal, spatial, numerical, conversational, dialogic and narrative skills acquired in ASL 103. Incorporates complex ASL grammatical features, contextual vocabulary building, comprehension and original generation of medium-length stories, narratives, dialogues and presentations. Discussion of cultural topics and issues relevant to the deaf community. Study group participation and attendance at deaf events required.

**ASL 110 — Introduction to ASL/English Interpretation**  
(2) — CSU  
*Prerequisites: ASL 101 or two years of high school ASL with a minimum grade of “C” or qualifying score on SBCC SoML placement exam.*  
*Skills Advisories: Eligibility for ENG 110 or 110H*  
*Hours: 36 lecture*

Introduction to the field of American Sign Language/English interpretation and cultural mediation. Designed to be of specific interest to those who are considering becoming interpreters or those who use, purchase, or schedule interpreting services.

**ASL 111 — Fingerspelling and Numbers I**  
(2) — CSU  
*Prerequisites: ASL 101 or 120 or 3 years of high school ASL, with a minimum grade of “C” or qualifying score on SBCC SoML placement exam.*  
*Skills Advisories: Eligibility for ENG 110 or 110H*  
*Hours: 36 lecture*

Introduction to numerical and fingerspelling systems in American Sign Language.

**ASL 112 — Fingerspelling and Numbers II**  
(2) — CSU  
*Prerequisites: ASL 111 or 102 or 130 or 3 years of high school ASL, with a minimum grade of “C” or qualifying score on SBCC SoML placement exam.*  
*Skills Advisories: Eligibility for ENG 110 or 110H*  
*Hours: 36 lecture*
Advanced practice and application of fingerspelling and numbers in American Sign Language.

**ASL 115 — Classifiers**  
(2) — CSU  
**Prerequisites:** ASL 103 or 140 or four years of high school ASL with a minimum grade of “C” or qualifying score on SBCC SoML placement exam.  
**Skills Advisories:** Eligibility for ENG 110 or 110H  
**Hours:** 36 lecture  
Introduction to and application of classifier use in American Sign Language.

**ASL 120 — Beginning Conversational American Sign Language**  
(2) — CSU  
**Prerequisites:** ASL 101 or two years of high school ASL with a minimum grade of “C” or qualifying score on SBCC SoML placement exam.  
**Skills Advisories:** Eligibility for ENG 110 or 110H  
**Hours:** 36 lecture  
Creates natural contexts to generate and engage in conversational American Sign Language. Students apply and expand their knowledge and use of ASL through real world application. Conducted without spoken English; requires field trips and interaction with the local deaf community.

**ASL 125 — American Deaf Culture and History**  
(4) — CSU, UC  
**Skills Advisories:** Eligibility for ENG 110 or 110H  
**Hours:** 72 lecture  
Introductory overview of American deaf culture and history. Identifies deaf Americans as a linguistic and cultural minority group with a rich and diverse history, culture and language.

**ASL 130 — Intermediate Conversation**  
(2) — CSU, UC  
**Prerequisites:** ASL 102 or 120 or three years of high school ASL with minimum grade of “C” or qualifying score on SBCC SoML placement exam.  
**Skills Advisories:** Eligibility for ENG 110 or 110H  
**Hours:** 36 lecture  
Vocabulary and grammar from ASL 102 or 120 are used in conversational discourse. Conducted in ASL. Requires field trips and interaction with the local deaf community.

**ASL 140 — Intermediate Conversation**  
(2) — CSU, UC  
**Prerequisites:** ASL 103 or 130 or four years of high school ASL with minimum grade of “C” or qualifying score on SBCC SoML placement exam.  
**Skills Advisories:** Eligibility for ENG 110 or 110H  
**Hours:** 36 lecture  
Students discuss everyday routines in academic, work and social contexts, and present short debates, medium-length stories and short lectures. Emphasis on role shifting. Conducted in ASL.

**ASL 145 — Conversation Analysis**  
(2) — CSU, UC  
**Prerequisites:** ASL 103  
**Skills Advisories:** Eligibility for ENG 110 or 110H  
**Hours:** 36 lecture  
Students observe, analyze and discuss six specific aspects of ASL linguistics in natural use settings. Students rehearse and execute each linguistic aspect on video and analyze their work for linguistic and grammatical accuracy.

**ASL 150 — American Sign Language: Individual Skills Development**  
(5) — CSU  
**Corequisites:** ASL 104  
**Skills Advisories:** Eligibility for ENG 98  
**Hours:** 90 lecture  
A supervised individual/small group activity designed to provide feedback on comprehension and production skills in American Sign Language. Designed primarily for students whose individual performance after completing ASL IV or equivalent indicates the need for additional support from a fluent ASL sign language model/tutor.

**Arabic Courses**

**ARBC 101 — Beginning Modern Standard Arabic I**  
(5) — CSU, UC  
**Skills Advisories:** Eligibility for ENG 110 or 110H  
**Hours:** 90 lecture  
Essentials of spoken and written Modern Standard Arabic for the beginner. Provides an introduction to the culture of Arabic speakers.
ARBC 102 — Beginning Modern Standard Arabic II
(5) — CSU, UC
Prerequisites: ARBC 101 or two years of high school Arabic with a minimum grade of “C” or qualifying score on SBCC SoML placement exam.
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 90 lecture
Continuation of Modern Standard Arabic 101. Focuses on the essentials of the spoken and written language for the beginner. Provides an introduction to the culture of Arabic speakers.

Chinese Courses

CHIN 101 — Beginning Chinese I
(5) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 90 lecture
Essentials of spoken and written Mandarin Chinese through the study of vocabulary, Pin-Yin system, syntax, grammar and culture.

CHIN 102 — Beginning Chinese II
(5) — CSU, UC
Prerequisites: CHIN 101 or two years of high school Chinese with a minimum grade of “C” or qualifying score on SBCC SoML placement exam.
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 90 lecture
Continuation of CHIN 101. Essentials of spoken and written Mandarin Chinese through the study of vocabulary, Pin-Yin system, syntax, grammar and culture.

CHIN 103 — Intermediate Chinese
(5) — CSU, UC
Prerequisites: CHIN 102 or three years of high school Chinese with minimum grade of “C” or qualifying score on SBCC SoML placement exam.
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 90 lecture
Continuation of CHIN 102. Develops students’ ability to master everyday topics using advanced grammatical patterns in “spoken style” Chinese.

CHIN 120 — Beginning Conversation
(2) — CSU
Prerequisites: CHIN 101 or two years of high school Chinese with a minimum grade of “C” or qualifying score on SBCC SoML placement exam.
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 36 lecture
Promotion of free and spontaneous oral expression in Mandarin Chinese at the elementary level.

French Program

The French Program offers a sequence of courses in the basic language skills of listening, speaking, reading and writing. On the intermediate level, courses are designed for specific needs: conversation, grammar review and literature. The Associate in Arts Degree may be obtained through French major.

French Program Coordinator
Laura Gardinali (H-316, ext. 3458)

AA Degree: French

Department Requirements (25-26 units)
FR 101 — Beginning French I ........................................5
FR 102 — Beginning French II .......................................5
FR 103 — Intermediate French I .................................5
FR 104 — Intermediate French II ....................................5
FR 130 or 140 — Intermediate Conversation ..................2

Plus a one semester course from the following or 4 units of another foreign language:
ART 104 — History of Art, Renaissance to Modern or ........3
    ART 104H — History of Art, Renaissance to Modern, Honors .........4
ECON 106 — International Economics ............................3
HIST 104 — History of Western Civilization or .................3
    HIST 113H — History of Western Civilization, 1600 to Present, Honors ..........4
IBUS 102 — Introduction to International Business ..........3
PHIL 201 — History of Philosophy: Modern ..................3
PHIL 203 — History of Philosophy: Contemporary ..........3
POLS 121 — International Politics ..............................3
Another Foreign Language ...........................................4
**College Requirements**
For complete information, see “Graduation Requirements” in the Catalog Index.

**Planning a Program of Study**
Since students majoring in French do so with a variety of objectives, a program of study should be planned with the help of the college counselor for the School of Modern Languages and the chairperson of the department. Transfer students are urged to consult the current catalog of the institution which they plan to attend.

**Sample Program**
For a sample program, consult the catalog of the transfer institution of your choice.

**Preparation for Transfer**
Course requirements for transfer vary depending upon the college or university a student wishes to attend. Therefore, it is most important for a student to consult with his/her counselor and departmental adviser before planning an academic program for transfer. Information sheets for majors, outlining transfer requirements, are available in the Counseling Center.

**French Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
<th>Transferable</th>
<th>Prerequisites</th>
<th>Skill Advisories</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FR 101</td>
<td>Beginning French I</td>
<td>5</td>
<td>CSU, UC</td>
<td>FR 101 or two years of high school French with a minimum grade of “C” or qualifying score on SBCC SoML placement exam.</td>
<td>Eligibility for ENG 110 or 110H</td>
<td>90</td>
<td>Focuses on the essentials of spoken and written French for the beginner, and provides an introduction to the culture of French speakers.</td>
</tr>
<tr>
<td>FR 102</td>
<td>Beginning French II</td>
<td>5</td>
<td>CSU, UC</td>
<td>FR 102 or three years of high school French with a minimum grade of “C” or qualifying score on SBCC SoML placement exam.</td>
<td>Eligibility for ENG 110 or 110H</td>
<td>90</td>
<td>Focuses on the essentials of spoken and written French for the beginner, and provides an introduction to the culture of French speakers.</td>
</tr>
<tr>
<td>FR 103</td>
<td>Intermediate French I</td>
<td>5</td>
<td>CSU, UC</td>
<td>FR 102 or three years of high school French with a minimum grade of “C” or qualifying score on SBCC SoML placement exam.</td>
<td>Eligibility for ENG 110 or 110H</td>
<td>90</td>
<td>Review of basic structures and vocabulary building. Development of auditive comprehension, reading skills and oral expression.</td>
</tr>
<tr>
<td>FR 104</td>
<td>Intermediate French II</td>
<td>5</td>
<td>CSU, UC</td>
<td>FR 102 or three years of high school French with a minimum grade of “C” or qualifying score on SBCC SoML placement exam.</td>
<td>Eligibility for ENG 110 or 110H</td>
<td>72</td>
<td>Readings and discussions in French contemporary cultural topics (society, history, art, cinema, literature). Review of basic syntax begun in FR 103 is continued. Further practice in the subjunctive and literary tenses.</td>
</tr>
<tr>
<td>FR 120</td>
<td>Beginning Conversation</td>
<td>2</td>
<td>CSU</td>
<td>FR 101 or two years of high school French with a minimum grade of “C” or qualifying score on SBCC SoML placement exam.</td>
<td>Eligibility for ENG 110 or 110H</td>
<td>36</td>
<td>Promotion of free and spontaneous oral expression in French at the elementary level.</td>
</tr>
<tr>
<td>FR 130</td>
<td>Intermediate Conversation</td>
<td>2</td>
<td>CSU, UC</td>
<td>FR 102 or 120 or three years of high school French with a minimum grade of “C” or qualifying score on SBCC SoML placement exam.</td>
<td>Eligibility for ENG 110 or 110H</td>
<td>36</td>
<td>Designed to increase the student’s vocabulary and fluency in the language, as well as his/her ability to comprehend cultural and sociolinguistic differences.</td>
</tr>
</tbody>
</table>
FR 132 — Intermediate Literary Readings  
(2) — CSU, UC  
Prerequisites: FR 103 or four years of high school French with a minimum grade of “C” or qualifying score on SBCC SoML placement exam.  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 36 lecture  
Designed for the student who wishes to improve reading, speaking and writing skills and vocabulary. Emphasizes oral and written communication with a focus on the discussion, synthesis and analysis of short literary works.

FR 140 — Intermediate Conversation  
(2) — CSU, UC  
Prerequisites: FR 103 or 130 or four years of high school French with a minimum grade of “C” or qualifying score on SBCC SoML placement exam.  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 36 lecture  
Designed to increase the student’s vocabulary and fluency in the language, as well as his/her ability to comprehend cultural and sociolinguistic differences.

FR 142 — Advanced Literary Readings  
(2) — CSU, UC  
Prerequisites: FR 104 or 132 or qualifying score on SBCC SoML placement exam.  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 36 lecture  
Designed for the student who wishes to improve reading, speaking and writing skills and vocabulary. Emphasizes oral and written communication, with a focus on the discussion, synthesis and analysis of short literary works.

FR 299 — Independent Study in French  
(1-4) — CSU  
Prerequisites: Complete 12 units at SBCC with a GPA of 2.5 and a minimum of 6 units with a GPA of 3.0 in French.  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 48-192 lab  
Students work under guidance and direction of sponsoring faculty member on project consistent with his/her interests and abilities. Each unit of credit requires the student to devote approximately three hours per week to the project.

German Courses

GER 101 — Beginning German I  
(5)— CSU, UC  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 90 lecture  
Fundamentals of grammar, pronunciation, orthography and conversation.

GER 102 — Beginning German II  
(5)— CSU, UC  
Prerequisites: GER 101 or two years of high school German with a minimum grade of “C” or qualifying score on SBCC SoML placement exam.  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 90 lecture  
Fundamentals of grammar, pronunciation, orthography and conversation.

GER 103 — Intermediate German I  
(5)— CSU, UC  
Prerequisites: GER 102 or three years of high school German with a minimum grade of “C” or qualifying score on SBCC SoML placement exam.  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 90 lecture  
Review of basic structures, with emphasis on comprehension and vocabulary building.

GER 104 — Intermediate German II  
(5)— CSU, UC  
Prerequisites: GER 103 or four years of high school German with a minimum grade of “C” or qualifying score on SBCC SoML placement exam.  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 90 lecture  
Continuation of GER 103. Emphasis on listening, speaking, reading and writing skills. Review of grammatical structures, vocabulary-building through readings, research and discussion of cultural topics.

GER 120 — Beginning Conversation  
(2) — CSU  
Prerequisites: GER 101 or two years of high school German with a minimum grade of “C” or qualifying score on SBCC SoML placement exam.  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 36 lecture
Promotion of free and spontaneous oral expression in German at the elementary level.

**GER 130 — Intermediate Conversation**  
*(2) — CSU, UC*  
Prerequisites: GER 102 or 120 or three years of high school German with a minimum grade of “C” or qualifying score on SBCC SoML placement exam.  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 36 lecture  
Skills of conversation, via topic-oriented expanded vocabulary at the intermediate level.

**GER 140 — Intermediate Conversation**  
*(2) — CSU, UC*  
Prerequisites: GER 103 or 130 or four years of high school German with a minimum grade of “C” or qualifying score on SBCC SoML placement exam.  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 36 lecture  
Skills of conversation, via topic-oriented expanded vocabulary at the intermediate level.

**GER 299 — Independent Study in German**  
*(1-4) — CSU*  
Skills Advisories: Eligibility for ENG 110 or 110H  
Limitation on Enrollment: Completion of two courses in German at SBCC prior to enrolling in an independent study course with a 3.0 or higher GPA. To be eligible for independent study, a student must have completed a minimum of 12 units at SBCC with a 2.5 GPA. For complete information, see “Independent Study” in the Catalog Index. (*UC Transfer Limit: computed as Independent Study; see counselor).  
Hours: 72 lecture  
For complete information, see “Independent Study” in the Catalog Index. (*UC transfer limit: computed as Independent Study; see counselor)

**Hebrew Courses**

**HEBR 101 — Beginning Modern Hebrew I**  
*(5) — CSU, UC*  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 90 lecture  
Beginning course on reading, grammar, syntax and the essentials of spoken and written modern Hebrew. Provides an introduction to the culture of Hebrew speakers.

**HEBR 102 — Beginning Modern Hebrew II**  
*(5) — CSU, UC*  
Prerequisites: HEBR 101 or two years of high school Hebrew with a minimum grade of “C” or qualifying score on SBCC SoML placement exam.  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 90 lecture  
Continuation of HEBR 101. Focuses on the essentials of spoken and written Modern Hebrew for the beginner and provides an introduction to the culture of Hebrew speakers.

**Italian Courses**

**Coordinator**  
Laura Gardinali (H-316, ext. 3458)

**ITAL 101 — Beginning Italian I**  
*(5) — CSU, UC*  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 72 lecture  
Focuses on the essentials of spoken and written Italian for the beginner, and provides an introduction to the culture of Italian speakers.

**ITAL 102 — Beginning Italian II**  
*(5) — CSU, UC*  
Prerequisites: ITAL 101 or two years of high school Italian with a minimum grade of “C” or qualifying score on SBCC SoML placement exam.  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 90 lecture  
Focuses on the essentials of spoken and written Italian for the beginner, and provides an introduction to the culture of Italian speakers.

**ITAL 103 — Intermediate Italian I**  
*(5) — CSU, UC*  
Prerequisites: ITAL 102 or three years of high school Italian with a minimum grade of “C” or qualifying score on SBCC SoML placement exam.  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 90 lecture  
Review of basic structures, vocabulary building, development of auditive comprehension, reading skills and oral expression.
ITAL 104 — Intermediate Italian II  
(5) — CSU, UC  
Prerequisites: ITAL 103 or four years of high school Italian with a minimum grade of “C” or qualifying score on SBCC SoML placement exam.  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 90 lecture  
Focuses on further development of listening, speaking, reading and writing skills. Review of grammatical structures, vocabulary building through readings. Research and discussion of cultural topics.

ITAL 120 — Beginning Conversation  
(2) — CSU  
Prerequisites: ITAL 101 or two years of high school Italian with a minimum grade of “C” or qualifying score on SBCC SoML placement exam.  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 36 lecture  
Promotion of free and spontaneous oral expression in Italian at the elementary level.

ITAL 130 — Intermediate Conversation  
(2) — CSU, UC  
Prerequisites: ITAL 102 or 120 or three years of high school Italian with a minimum grade of “C” or qualifying score on SBCC SoML placement exam.  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 36 lecture  
Second-year course designed to increase the student’s vocabulary and fluency in the language, as well as his/her ability to comprehend cultural and sociolinguistic differences.

ITAL 140 — Intermediate Conversation  
(2) — CSU, UC  
Prerequisites: ITAL 103 or 130 or four years of high school Italian with a minimum grade of “C” or qualifying score on SBCC SoML placement exam.  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 36 lecture  
Second-year course designed to increase the student’s vocabulary and fluency in the language, as well as his/her ability to comprehend cultural and sociolinguistic differences.

ITAL 150 — Advanced Italian  
(5) — CSU, UC  
Prerequisites: ITAL 104 or qualifying score on SBCC SoML placement exam.  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 90 lecture  
For the advanced student who wishes to perfect his/her knowledge of the language. Includes discussion of literary selections, vocabulary building, composition and the study of more complex grammatical structures.

ITAL 160 — Advanced Italian  
(5) — CSU, UC  
Prerequisites: ITAL 104 or qualifying score on SBCC SoML placement exam.  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 90 lecture  
For the advanced student who wishes to perfect his/her knowledge of the language. Includes discussion of literary selections, vocabulary-building, composition and the study of more complex grammatical structures.

ITAL 299 — Independent Study in Italian  
(1-4) — CSU  
Limitation on Enrollment: Eight units of Italian courses completed with a 3.0 or higher GPA; minimum of 12 units of course work completed at SBCC with GPA of at least 2.5.  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 48-192 lab  
One to four units of credit; each unit equivalent to three (3) hours per week devoted to study. Interview with instructor and weekly meetings required. (*UC transfer limit: computed as Independent Study; see counselor)

Japanese Courses

JAPN 101 — Beginning Japanese I  
(5) — CSU, UC  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 90 lecture  
Introduction to the essential tools of communication in modern Japanese. Course aims at the acquisition of four basic skills in modern Japanese-speaking (listening comprehension, reading and writing) based on the fundamentals of the sound system, basic grammar and vocabulary. Introduction to Japanese writing systems and the culture.
JAPN 102 — Beginning Japanese II  
(5) — CSU, UC  
Prerequisites: JAPN 101 or two years of high school Japanese with a minimum grade of “C” or qualifying score on SBCC SoML placement exam. 
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 90 lecture  
Continues the introduction to the essential tools of communication in modern Japanese. Aims at the acquisition of four basic skills in modern Japanese: speaking, listening comprehension, reading and writing—based on the fundamentals of the sound system, basic grammar and vocabulary. Introduction to Japanese writing systems and the culture of Japanese speakers.

JAPN 103 — Intermediate Japanese I  
(5) — CSU, UC  
Prerequisites: JAPN 102 or three years of high school Japanese with a minimum grade of “C” or qualifying score on SBCC SoML placement exam. 
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 90 lecture  
Emphasizes comprehension and vocabulary building, and enrichment of grammar for both spoken and written Japanese. Introduction to additional Kanji and the culture of Japanese speakers.

JAPN 104 — Intermediate Japanese II  
(5) — CSU, UC  
Prerequisites: JAPN 103 or four years of high school Japanese with a minimum grade of “C” or qualifying score on SBCC SoML placement exam. 
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 90 lecture  
Continuation of comprehension and vocabulary building, and enrichment of grammar in both spoken and written Japanese. Introduction to additional Kanji and the culture of Japanese speakers.

JAPN 120 — Beginning Japanese Conversation  
(2) — CSU  
Prerequisites: JAPN 101 or two years of high school Japanese with a minimum grade of “C” or qualifying score on SBCC SoML placement exam. 
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 36 lecture  
Oral expression in Japanese at the beginning level.

JAPN 121 — Language and Culture through Japanese Anime  
(2) — CSU  
Prerequisites: JAPN 102 or 3 years of high school Japanese with a minimum grade of “C” or qualifying score on SBCC SoML placement exam. 
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 36 lecture  
For students who are ready to learn the basics of Japanese linguistics and colloquial Japanese in order to understand and appreciate Japanese anime.

JAPN 130 — Intermediate Japanese Conversation I  
(2) — CSU, UC  
Prerequisites: JAPN 102 or three years of high school Japanese with a minimum grade of “C” or qualifying score on SBCC SoML placement exam. 
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 36 lecture  
Designed to increase skills of conversation, as well as effective and appropriate use of the language in real-life situations.

JAPN 140 — Intermediate Japanese Conversation II  
(2) — CSU, UC  
Prerequisites: JAPN 102 or three years of high school Japanese with a minimum grade of “C” or qualifying score on SBCC SoML placement exam. 
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 36 lecture  
Designed to increase skills of conversation and effective and appropriate use of the language in real-life situations.

Korean Courses

KOR 101 — Beginning Korean I  
(5) — CSU, UC  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 90 lecture  
Students acquire basic knowledge of the grammar and vocabulary, and develop an ability to read, write and understand simple texts. Introduction to the writing system of the Korean alphabet (Hans Gul), as well as the sound system. Emphasis on oral-aural proficiency and reading-writing skills. Cultural elements of Korea also introduced.
KOR 102 — Beginning Korean II
(5) — CSU, UC
Prerequisites: KOR 101 or two years of high school Korean with a minimum grade of “C” or qualifying score on SBCC SoML placement exam.
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 90 lecture

Provides students simple and complex sentences with basic grammatical patterns. Emphasizes correct use of basic grammatical patterns and their application in actual life. Students are required to write short essays based on topics from everyday life.

Latin Courses

LATN 101 — Beginning Latin I
(5) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 90 lecture

Beginning course on reading, grammar and syntax of classical Latin. Study of the presence of Latin in modern languages, sciences and culture.

LATN 102 — Beginning Latin II
(5) — CSU, UC
Prerequisites: LATN 101 or two years of high school Latin with a minimum grade of “C” or qualifying score on SBCC SoML placement exam.
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 90 lecture


LATN 132 — Ancient Origins of Modern English
(4) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 72 lecture

Designed to increase English vocabulary and the knowledge of ancient concepts behind the terminology of medicine, science, economics, politics, and law. Topics include Ancient Greek and Latin components in English, word building, and the historical and political origins of important English words.

Spanish Program
The Spanish language courses, as an integral part of the humanities program, prepare students for transfer to a university with strong second language skills and knowledge about the Spanish speaking culture.

In addition to careers in education and business, Spanish provides occupational opportunities in all areas in which it is advantageous to be bilingual in English and Spanish. This skill is especially useful in California. Knowledge of Spanish may complement careers such as foreign service officer, foreign correspondent, travel agent, teacher, international banker, lawyer, export and import employee, legal secretary, receptionist, nurse, interpreter, social worker, government employee and medical doctor.

The curriculum of Santa Barbara City College’s Spanish Program provides instruction in aural comprehension, speaking, reading and writing, from beginning to third-year levels. SPAN 101 and 102 introduce the student to basic grammar, vocabulary, communicative functions, with an introduction to the culture of Spanish speakers. SPAN 103 and 104 expand the grammatical base established in the beginning levels, and includes extensive readings to increase vocabulary and phraseology of idiomatic expressions. SPAN 115, 132, and 135 respond to special needs and the growing demand for knowledge of Hispanic cultures and literature. SPAN 146 and 147 are designed to reinforce the Spanish language skills of native speakers. SPAN 150 and 160 concentrate on refining the knowledge and use of the language. The conversation courses (SPAN 120, 130, 140) emphasize oral self-expression.

The Spanish Program also has Study Abroad programs in Mexico, Costa Rica, South America and Spain. Interested students should contact the Study Abroad Office, ext. 2494.

The department offers an AA-T Degree in Spanish for Transfer. This degree provides the foundational knowledge in Spanish to students who want to earn a Baccalaureate Degree in Spanish. This degree is in compliance with the Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code Sections 66746-66749) and guarantees admission to a California State University (CSU) campus for any community college student who completes an “associate degree for transfer,” a newly established variation of the associate degrees traditionally offered at a California community college. Upon completion of the transfer associate degree, the student is eligible for transfer with junior standing into the California State University (CSU) system. Students will be given priority consideration when applying to a particular program that is similar to the student’s
community college area of emphasis. For more information on transfer degrees, visit www.sb1440.org.

Faculty and Offices
Juan J. Casillas Núñez, Spanish Major Adviser
(H-319, ext. 2486)
Dina G. Castillo (H-310, ext. 2408)
Francisco Rodriguez (H-322, ext. 2898)
Sonia Zúñiga-Lomeli (H-309, ext. 2506)

AA Degree: Spanish
Department Requirements (24-28 units)
SPAN 103 — Intermediate Spanish I .......................5
SPAN 104 — Intermediate Spanish II ..........................5
SPAN 150 — Advanced Spanish ...............................4
SPAN 160 — Advanced Spanish ................................4
Plus one of the following:
SPAN 132 — Introduction to Literary Analysis or ........3
SPAN 133 — Survey of Spanish Literature or ...............3
SPAN 134 — Survey of Latin American Literature or ..3
SPAN 135 — Latin American Culture or ..................3
SPAN 136 — Contemp. Cultures-Central America or ...3
SPAN 138 — Contemp. Cultures-South America or ........4
SPAN 139 — Contemporary Culture of Spain or .........3
SPAN 146 — Spanish for Native Speakers or ..............5
SPAN 147 — Spanish for Native Speakers or ..............5
SPAN 290 — Work Experience in Spanish .................3-4

Plus a one-semester course from the following or one semester of another foreign language:
ART 104 — History of Art, Renaissance to Modern or ......3
ART 104H — Hist of Art, Renaiss to Modern, Honors......3
IBUS 102 — Introduction to International Business .......3
CHST 101 — Mexican-American (Chicano) Hist. in U.S. ..3
CHST 103 — Mexican-American (Chicano) Culture ......3
CHST 113 — Chicano Literature ................................3
CHST 114 — Borderlands Literature: U.S.-Mexico .......3
CHST 115 — Introduction to Mexican Literature ..........3
ECON 106 — International Economics ....................3
HIST 133 — History of Latin America: BC to 1800s ....3
HIST 134 — History of Latin America: 1800s-Mod Period ..3
PHIL 201 — History of Philosophy: Modern ..............3

PHIL 203 — History of Philosophy: Contemporary ........3
POLS 121 — International Politics ..........................3

College Requirements
For complete information, see “Graduation Requirements” in the Catalog Index.

Planning a Program of Study
In planning a program, students should be sure of placement at the proper level. Many students have had some Spanish before, but if considerable time has elapsed and they have had no contact with the language, it is best that they start at the beginning course level. Students who speak Spanish at home, but who have had no formal instruction in the language, should consult the department’s faculty adviser before selecting a course.

Sample Program
For a sample program, consult the catalog of the transfer institution of your choice.

Preparation for Transfer
Course requirements for transfer vary depending upon the college or university a student wishes to attend. Therefore, it is most important for a student to consult with his/her counselor and departmental adviser before planning an academic program for transfer. Information sheets for majors, outlining transfer requirements, are available in the Counseling Center.

Requirements for AA-T Degree—Spanish for Transfer
Spanish covers a wide range of topics. The major is designed to give students exposure to basic information in the discipline and provide the opportunity to focus on the areas that best suit their individual needs. Students should consult with a departmental adviser and/or counselor when choosing both controlled and general electives in order to develop a program of study that is best suited to their specific needs. For example, requirements for the baccalaureate degree in Spanish vary from one institution to another. It is, therefore, essential to become familiar with the requirements of the institution a student plans to attend.

The Associate in Arts Degree in Spanish for Transfer will provide the foundational knowledge to students who want to earn a Baccalaureate Degree in Spanish at any of the CSU campuses.
Degree Requirements
Complete 60 CSU-transferable units including General Education, major requirements and, CSU-transferable electives as follows:

I. General Education
Complete one of the following patterns:
- Intersegmental General Education Transfer Curriculum "IGETC" for CSU (38 semester units)
- California State University General Education Breadth pattern (40 semester units)

II. Major
Complete 23-25 units as outlined below with a "C" or better in each course. Pass/No Pass grading is not permitted in a course within a student’s major area of study. The courses completed for the major may also be used to fulfill General Education areas on the IGETC or the CSU GE Breadth.

Required Core (20 units) – Refer to Substitution Courses (++) below, for a list of approved course substitutions if a student places out of any core course(s).

SPAN 101* — Beginning Spanish...........................5
SPAN 102* — Beginning Spanish...........................5
SPAN 103* — Intermediate Spanish I or ..................5
    SPAN 146* — Spanish for Native Speakers ..........5
SPAN 104* — Intermediate Spanish II or ..............5
    SPAN 147* — Spanish for Native Speakers ..........5

List A. Select at least one course from the following
(3-5 units)
ACCT 230 — Financial Accounting .........................5
CHST 115* — Introduction to Mexican Literature ....3
CIS 101 — Intro to Computers and Info Systems .......4
COMM 101* — Introduction to Communication ..........3
COMM 121* — Interpersonal Communication or ....3
    COMM 121H* — Interpersonal Communication, Honors .3
COMM 235* — Argumentation and Debate ..............3
ENG 111* — Critical Thinking and Comp. Through Lit or .3
    ENG 111H* — Crit. Thk. and Comp. Thru Lit, Honors....3
ENG 232* — World Literature ................................3
HIST 134* — Hist. of Latin Amer: 1800s-Mod Period....3
PHIL 111* — Critical Thinking and Writing in Philosophy ....3
SPAN 120 — Beginning Spanish Conversation ............2
SPAN 130 — Intermediate Conversation .................3
SPAN 132* — Introduction to Literary Analysis .........3
SPAN 133* — Survey of Spanish Literature .............3
SPAN 134* — Survey of Latin American Literature ......3
SPAN 135* — Latin American Culture ...................4
SPAN 136* — Contemp. Cultures-Central America .......3
SPAN 138* — Contemp. Cultures-South America .........4
SPAN 139* — Contemporary Culture of Spain ..........3
SPAN 140 — Intermediate Conversation .................3
SPAN 150* — Advanced Spanish ..........................4
SPAN 160* — Advanced Spanish ..........................4

(++) Substitution Courses: If a student places out of any core course(s) and is not awarded units for that course, the student will need to take additional units to compensate for the course/units required to reach at least 18 total units in the major. Approved substitutions include courses in List A. Additional approved course substitutions include the following:

ANTH 103* — Introduction to Cultural Anthropology ....3
ANTH 104* — Linguistic Anthropology ..................3
CHST 101* — Mexican-American (Chicano) History in the U.S. .3
CHST 102* — The Chicano and Latino in U.S. History, 1960-Present ....3
CHST 103* — Mexican-American (Chicano) Culture ..3
CHST 113* — Chicano Literature ..........................3
CHST 114* — Borderlands Literature: U.S.-Mexico ....3
COMM 151* — Intercultural Communication ................3
ETHS 101* — The Immigrant Experience in the U.S. or .3
    ETHS 101H* — The Immigrant Experience in the U.S., Honors or ..................4
HIST 114* — The Immigrant Experience in the U.S. or ..3
    HIST 114H* — The Immigrant Experience in the U.S., Honors ..................4
ETHS 107* — Racism in America or ....................3
SOC 107* — Racism in America ............................3
GEOG 102* — Human Geography ..........................3
HIST 135* — History of Mexico ...........................3
**SOC 101* — Introduction to Sociology or** ..........................3

**SOC 101H* — Introduction to Sociology, Honors .................4
SOC 113* — Sociology of Sex and Gender ..........................3

*These courses fulfill an IGETC and/or a CSU GE Breadth pattern requirement. Visit www.assist.org or http://articulation.sbcc.edu for a complete list of IGETC and CSU GE Breadth requirements.

**III. CSU-Transferable Electives**

Complete as many units as needed to reach a total of 60 CSU-transferable units (for a list of SBCC-transferable courses to CSU, visit www.assist.org).

**Additional Graduation Requirements for AA-T in Spanish:**

- Maintain a cumulative CSU-transferable GPA of 2.0.
- Residency Requirements: Candidates for an Associate Degree are expected to complete 15 semester units in residence at SBCC. Candidates for an Associate Degree are also expected to complete at least 20% of the department major requirements in residence at SBCC.

**Spanish Courses**

**SPAN 010 — Basic Spanish Skills for ESL I**

(5)

Hours: 90 lecture

For Spanish speakers who want to learn how to read and write in their first language, as a means to progressively gain reading and writing competency in English. First part of a sequential education program.

**SPAN 020 — Basic Spanish Skills for ESL II**

(5)

Hours: 90 lecture

Second part of a sequential program designed to teach reading and writing to Spanish-speakers, as a means to progressively gain reading and writing competency in English. Designed to further promote the development of the four skills: reading, writing, speaking and listening.

**SPAN 101 — Beginning Spanish I**

(5) — CSU, UC

Skills Advisories: Eligibility for ENG 110 or 110H

Hours: 90 lecture

Focuses on the essentials of spoken and written Spanish for the beginner, and provides an introduction to the culture of Spanish speakers.

**SPAN 102 — Beginning Spanish II**

(5) — CSU, UC

Prerequisites: SPAN 101 or two years of high school Spanish with a minimum grade of “C” or qualifying score on SBCC SoML placement exam.

Skills Advisories: Eligibility for ENG 110 or 110H

Hours: 90 lecture

Focuses on the essentials of spoken and written Spanish for the beginner, and provides an introduction to the culture of Spanish speakers.

**SPAN 103 — Intermediate Spanish I**

(5) — CSU, UC

Prerequisites: SPAN 102 or three years of high school Spanish with a minimum grade of “C” or qualifying score on SBCC SoML placement exam.

Skills Advisories: Eligibility for ENG 110 or 110H

Hours: 90 lecture

Review of grammatical structures and vocabulary building through readings. Further work with intermediate listening, speaking, reading and writing skills. Research and discussion of cultural topics.

**SPAN 104 — Intermediate Spanish II**

(5) — CSU, UC

Prerequisites: SPAN 103 or four years of high school Spanish with a minimum grade of “C” or qualifying score on SBCC SoML placement exam.

Skills Advisories: Eligibility for ENG 110 or 110H

Hours: 90 lecture

Further development of listening, speaking, reading and writing skills. Review of grammatical structures, vocabulary building and cultural topics research.

**SPAN 110 — Spanish Punctuation**

(.5)

Skills Advisories: Eligibility for ENG 110 or 110H

Hours: 9 lecture

Introduction to the fundamentals of Spanish punctuation. The use of diacritics and punctuation marks. Designed to increase accuracy of student who writes in Spanish at all levels.
SPAN 111 — Spanish Written Accents (.5)
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 9 lecture
Introduction to the fundamentals of Spanish phonetic and graphic accents. Designed to increase accuracy of student who writes in Spanish at all levels.

SPAN 114 — Beginning Occupational Spanish (2)
Hours: 36 lecture
Emphasis on commonly used structures, communicative functions and vocabulary related to Spanish at the beginning level as spoken in the workplace.

SPAN 115 — Intermediate Occupational Spanish (2)
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 36 lecture
Study of intermediate sentence structures: indicative, subjunctive and imperative moods, present, past and future tenses. Emphasis on commonly used structures, communicative functions and vocabulary for everyday use in the workplace.

SPAN 116 — Intermediate Spanish for the Healthcare Professional (2) — CSU
Prerequisites: SPAN 102 or with a minimum grade of “C” or qualifying score on SBCC SoML placement exam.
Hours: 36 lecture
Designed for the intermediate-level Spanish learner in the medical health profession who needs to effectively communicate with Spanish-speaking clients and co-workers. Topics include common diseases, anatomy and protocol for obtaining a medical history. An in-depth look at the patient cultural belief systems as related to illness and health.

SPAN 117 — High Intermediate Occupational Spanish (2)
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 36 lecture
Study of high intermediate sentence structures. Review and reinforcement of the indicative and imperative moods, and introduction of the subjunctive moods; present, past and future tenses. Emphasis on commonly used structures, communicative functions and vocabulary for everyday use in the workplace.

SPAN 120 — Beginning Spanish Conversation (2) — CSU
Prerequisites: SPAN 101 or two years of high school Spanish with a minimum grade of “C” or qualifying score on SBCC SoML placement exam.
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 36 lecture
Oral expression in Spanish at the beginning level.

SPAN 129/ESL 129 — Bilingual Conversation Exchange (2) — CSU
Course Advisories: SPAN 101CD or 101 or ESL 40 and 41 and 42.
Hours: 36 lecture
Interactive course for Spanish and ESL students to build conversation skills and foster cultural understanding.

SPAN 130 — Intermediate Spanish Conversation I (3) — CSU, UC
Prerequisites: SPAN 102 or three years of high school Spanish with a minimum grade of “C” or qualifying score on SBCC SoML placement exam.
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 36 lecture
Promotion of free and spontaneous oral expression in Spanish at the intermediate level.

SPAN 131A — Beginning Spanish Grammar I (1) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 18 lecture
Review of Spanish grammar fundamentals. Designed to increase accuracy of written and oral communication in Spanish. Class taught in English.

SPAN 131B — Beginning Spanish Grammar II (1) — CSU
Prerequisites: SPAN 131A
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 18 lecture
Review of Spanish grammar at the intermediate level. Designed to increase accuracy of written and oral communication in Spanish. Class taught in English.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Transferable Institutions</th>
<th>Prerequisites/Advisories</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 131C</td>
<td>Beginning Spanish Grammar III</td>
<td>1</td>
<td>CSU</td>
<td>Prerequisites: SPAN 131B</td>
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<td>Skills Advisories: Eligibility for ENG 110 or 110H</td>
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<td>Hours: 18 lecture</td>
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<td>Review of Spanish grammar at the intermediate level. Designed to increase accuracy of</td>
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<td>written and oral communication in Spanish. Class taught in English.</td>
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<tr>
<td>SPAN 132</td>
<td>Introduction to Literary Analysis</td>
<td>3</td>
<td>CSU, UC</td>
<td>Prerequisites: SPAN 104 or 147 with a minimum grade of “C” or qualifying score on SBCC</td>
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<td>SoML placement exam</td>
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<td>Skills Advisories: Eligibility for ENG 110 or 110H</td>
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<td>Hours: 54 lecture</td>
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<td>Introduction to literary analysis through study of various literary genres. Focus on</td>
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<td>discussion, synthesis and analysis of short stories, poems, drama and essays in Spanish.</td>
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<td>Prepares student for Spanish upper division courses.</td>
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<tr>
<td>SPAN 133</td>
<td>Survey of Spanish Literature</td>
<td>3</td>
<td>CSU, UC</td>
<td>Prerequisites: SPAN 104 with a minimum grade of “C” or four years of high school</td>
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<td>Spanish or qualifying score on SBCC SoML placement exam</td>
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<td>Skills Advisories: Eligibility for ENG 110 or 110H</td>
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<td>Hours: 54 lecture</td>
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<td>Designed for the student who wishes to be introduced to Spanish literature and improve</td>
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<td>Spanish reading and writing skills. Focus on readings, discussion and analysis of</td>
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<td>literary works by main Spanish authors, from the Middle Ages period to the present.</td>
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<td>Prepares student for Spanish upper division courses. Class taught in Spanish.</td>
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<tr>
<td>SPAN 134</td>
<td>Survey of Latin American Literature</td>
<td>3</td>
<td>CSU, UC</td>
<td>Prerequisites: SPAN 104 with a minimum grade of “C” or four years of high school</td>
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<td>Spanish or qualifying score on SBCC SoML placement exam</td>
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<td>Skills Advisories: Eligibility for ENG 110 or 110H</td>
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<td>Hours: 54 lecture</td>
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<td>Designed for the student who wishes to be introduced to Hispanic American literature and</td>
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<td>improve Spanish reading and writing skills. Focus on readings, discussion and analysis</td>
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<td>of literary works by Hispanic American authors, from the Conquest to the present.</td>
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<td>Prepares student for Spanish upper division courses. Class taught in Spanish.</td>
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<tr>
<td>SPAN 135</td>
<td>Latin American Culture</td>
<td>4</td>
<td>CSU, UC</td>
<td>Prerequisites: SPAN 104 or qualifying score on SBCC SoML placement exam</td>
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<td>Skills Advisories: Eligibility for ENG 110 or 110H</td>
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<td>Hours: 72 lecture</td>
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<td>Culture course allows the student to study and research topics of special importance to</td>
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<td>the Hispanic world. Written and oral presentations are required. Class taught in</td>
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<td>Spanish.</td>
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<tr>
<td>SPAN 136</td>
<td>Contemporary Cultures — Central America</td>
<td>3</td>
<td>CSU, UC</td>
<td>Prerequisites: SPAN 104 with a minimum grade of “C” or four years of high school</td>
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<td>Spanish or qualifying score on SBCC SoML placement exam</td>
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<td>Skills Advisories: Eligibility for ENG 110 or 110H</td>
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<td>Hours: 54 lecture</td>
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<td>Examines Hispanic cultural dimensions, allowing students to study topics of importance</td>
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<td>to the Central American region. Class taught in English.</td>
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<td>SPAN 138</td>
<td>Contemporary Culture — South America</td>
<td>4</td>
<td>CSU, UC</td>
<td>Prerequisites: SPAN 104 with a minimum grade of “C” or four years of high school</td>
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<td>Spanish or qualifying score on SBCC SoML placement exam</td>
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<td>Skills Advisories: Eligibility for ENG 110 or 110H</td>
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<td>Hours: 72 lecture</td>
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<td>South American culture exploration that allows the student to study and research topics</td>
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<td>of special importance to this region of the Hispanic world. Written and oral</td>
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<td>presentations are required. Class taught in English.</td>
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<td>SPAN 139</td>
<td>Contemporary Culture of Spain</td>
<td>3</td>
<td>CSU, UC</td>
<td>Skills Advisories: Eligibility for ENG 98 and 103</td>
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<td>Hours: 54 lecture</td>
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<td>Examines modern Spain from a cultural perspective, allowing the student to study</td>
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<td>topics of importance to Spain and Spanish America. Class taught in English.</td>
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<td>SPAN 140</td>
<td>Intermediate Spanish Conversation II</td>
<td>3</td>
<td>CSU, UC</td>
<td>Prerequisites: SPAN 102 or 3 years of high school Spanish with a minimum grade of “C”</td>
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<td>or qualifying score on SBCC SoML placement exam</td>
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<td>Skills Advisories: Eligibility for ENG 110 or 110H</td>
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<td>Hours: 54 lecture</td>
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<td>Designed for the student who wishes to be introduced to Hispanic American literature and</td>
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<td>improve Spanish reading and writing skills. Focus on readings, discussion and analysis</td>
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<td>of literary works by Hispanic American authors, from the Conquest to the present.</td>
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<td>Prepares student for Spanish upper division courses. Class taught in Spanish.</td>
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</tbody>
</table>
Promotion of free and spontaneous oral expression in Spanish at the advanced level.

SPAN 146 — Intermediate Spanish for Native Speakers I
(5) — CSU, UC
Prerequisites: SPAN 102 or qualifying score on SBCC SoML placement exam.
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 90 lecture
For students who speak Spanish as their first-language, or second-language learners with a native or near-native fluency. Designed to facilitate the acquisition of higher grammatical competency in writing, higher understanding in reading, and the ability to draw on a more varied vocabulary and complex verbal system for target-language production.

SPAN 147 — Intermediate Spanish for Native Speakers II
(5) — CSU, UC
Prerequisites: SPAN 103 or 146 or qualifying score on SBCC SoML placement exam.
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 72 lecture
Designed to bring students who speak Spanish with native or near-native fluency to a “distinguished” level, according to the ACTFL proficiency guidelines.

SPAN 150 — Advanced Spanish
(4) — CSU, UC
Prerequisites: SPAN 104 or 147 or qualifying score on SBCC SoML placement exam.
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 72 lecture
Intended for the advanced student who wishes to perfect his/her knowledge of the language. Includes discussion of literary selections, vocabulary building, composition and study of more complex grammatical structures.

SPAN 160 — Advanced Spanish
(4) — CSU, UC
Prerequisites: SPAN 104 or 147 or 150 or qualifying score on SBCC SoML placement exam.
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 72 lecture
Intended for the advanced student who wishes to perfect his/her knowledge of the language. Includes discussion of

SPAN 170 — Intro. to Translation and Interpretation
(5) — CSU
Prerequisites: SPAN 160 or qualifying score on SBCC SoML placement exam.
Hours: 90 lecture
Introduction to standards and techniques of translation and interpretation. Acquisition of interpretation and translation skills of written materials.

SPAN 200 — Summer Study in Mexico, Spain or Latin America
(4) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: ENG 98 with a minimum grade of “B”
Hours: 72 lecture
Intensive Spanish language program stressing oral ability, pronunciation, grammar and culture. This course is a variable unit session taught in Mexico, Spain or in Latin America.

SPAN 290 — Work Experience in Spanish
(1-4) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 60-300 lab
Work experience on a job or project where the use of Spanish is required and critical to its successful completion. Student increases and refines Spanish oral, aural and written skills, and learns and compares cultural characteristics of the Spanish-speaking people living in the United States, as applied to the job or project.

SPAN 299 — Independent Study in Spanish
(1-4) — CSU
Limitation on Enrollment: Eight units in Spanish courses completed with 3.0 or higher GPA; minimum of 12 units of course work completed at SBCC with a GPA of at least 2.5.
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 48-192 lab
For complete information, see “Independent Study” in the Catalog Index. (*UC Transfer Limit: computed as Independent Study; see counselor).
Multimedia Arts and Technologies

Degrees, Certificates and Awards
Associate in Arts Degree, Media Arts
Certificate of Achievement, Media Arts
Associate in Arts Degree, Animation and Gaming
Certificate of Achievement, Animation and Gaming
Skills Competency Award,
  Web Marketing and Media Design
  (in conjunction with Finance, International Business and Marketing Department)
Skills Competency Award,
  Media Design and Development
Skills Competency Award, Mobile Media Core
Department Award, Game Design

Program Description
Multimedia is a field of study and an Industry emerging from the synthesis of the different mediums of communication. With the digitalization of all traditional media and the establishment of the web as the main vehicle of media transmission, multimedia has become “the content of the web”. The web experience mainly differs from previous mediums in its interactive and integrated way of articulating a time-based experience.

The Multimedia Arts curriculum develops students’ aesthetic and technical competence by providing training in state-of-the-art software, production processes, theory and concepts. The department’s programs prepare students for employment in applied media industries or for transfer to media programs at 4-year institutions. Our courses give students a core background in art, design and technical skills in media development, production and web transmission.

Currently, the department offers two fields of study: web-based media in our Media Arts Associate in Arts Degree and Certificate of Completion; animation and gaming through the Associate in Arts and Certificate of Completion with this name.

The animation and gaming program builds a foundation in 3D animation production and game development for entertainment, serious games and simulations. It consists of 27 mandatory units (3 semesters) and a number of recommended courses to further concentrate on skills in graphic art, modeling and 3D animation, 2D animation or interactive web programming. The Media Arts program, with only 18 units is designed to provide a foundation in web-based media and interactivity. Other classes in specialized mediums can be taken to create an individual media profile that will specialize the individual for better employment opportunities.

Program Student Learning Outcomes

Media Arts, Associate in Arts Degree and Certificate of Completion
1. Students will be able to input, create, edit, enhance and composite, a variety of visual media (vector-based and bitmaps, 2D and 3D) then optimize and format for output to web, screen or mobile media.
2. Students will be able to develop sophisticated imagery that conveys a message.
3. Students will be able to plan, design and construct a website that effectively communicates business and user goals.
4. Students will be able to plan, design and construct an interactive, user-oriented interface.

Animation and Gaming: Associate in Arts Degree and Certificate of Completion
1. Students will be able to create complex models, apply complex colors and textures to them according to a storyboard.
2. Students will be able to create a digital lighting system and render Photorealistic images in 2D.
3. Students will be able to create the necessary visual effects (environments and natural forces) specified for the story.
4. Students will be able to set up a skeleton for a 3D model and animate a character according to a storyboard.
5. Students will be able to animate a character according to the dialog in the story.

Faculty and Offices
Michael Gallegos, Co-Chair (A-170, ext. 2914)
Alejandra Jarabo, Co-Chair (A-170, ext. 4722)
Alice Perez, Dean (A-118, ext. 2354)
### AA Degree: Animation and Gaming

**Department Requirements (27 units)**

**Recommended Course Sequence**

**Semester 1 — Fall**
- MAT 103 — Introduction to Multimedia ................................................. 3
- MAT 131 — Digital Imaging I .............................................................. 3
- MAT 136 136 — Computer Animation I ............................................... 3

**Semester 2 — Spring**
- MAT 137 — Visual Effects for Film, TV and Gaming ...................................... 3
- MAT 116 — Flash I: Interactive Fundamentals ......................................... 3
- MAT 145 — Video Game Design .......................................................... 3
- MAT 205 — Portfolio Development and Prof Practices or
  MAT 216 — Flash II: Int. Story-Telling & Simple Games or
  MAT 168 — Serious Game Prototyping ............................................... 3

**Semester 3 — Fall**
- MAT 141 — 3D Modeling ......................................................................... 3
- MAT 138 — 3D Character Animation or
  MAT 167 — 3D Environments Design ............................................. 3

**Recommended Courses:**
- ART 124A — Classical Animation I .................................................. 3
- ART 140 — 2D Design: Composition and Color ..................................... 3
- ART 141 — 3D Design: Form and Space ............................................. 3
- CS 111 — HTML and Webmastering .................................................. 3
- CS 120 — Java Programming ............................................................... 3
- FP 279 — Motion Graphics and Compositing ....................................... 3
- FP 181 — Production Sound for Film and Television ............................ 3
- MAT 112 — Digital Drawing ................................................................. 3
- MAT 132 — Digital Imaging II ............................................................ 3
- MAT 152 — Compositing and Visual Effects for Animation .................... 3
- MAT 153 — Web Design I ................................................................. 3
- MAT 169 — Serious Game Production .................................................. 3

**College Requirements**

For complete information, see “Graduation Requirements” in the Catalog Index.

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### Certificate of Achievement: Animation and Gaming

**Department Requirements (27 units)**

**Recommended Course Sequence**

**Semester 1 — Fall**
- MAT 103 — Introduction to Multimedia ................................................. 3
- MAT 131 — Digital Imaging I .............................................................. 3
- MAT 136 — Computer Animation I ............................................... 3

**Semester 2 — Spring**
- MAT 137 — Visual Effects for Film, TV and Gaming ...................................... 3
- MAT 116 — Flash I: Interactive Fundamentals ......................................... 3
- MAT 145 — Video Game Design .......................................................... 3
- MAT 205 — Portfolio Development and Prof Practices or
  MAT 216 — Flash II: Int. Story-Telling & Simple Games or
  MAT 168 — Serious Game Prototyping ............................................... 3

**Semester 3 — Fall**
- MAT 141 — 3D Modeling ......................................................................... 3
- MAT 138 — 3D Character Animation or
  MAT 167 — 3D Environments Design ............................................. 3

**Recommended Courses:**
- ART 124A — Classical Animation I .................................................. 3
- ART 140 — 2D Design: Composition and Color ..................................... 3
- ART 141 — 3D Design: Form and Space ............................................. 3
- CS 111 — HTML and Webmastering .................................................. 3
- CS 120 — Java Programming ............................................................... 3
- FP 279 — Motion Graphics and Compositing ....................................... 3
- FP 181 — Production Sound for Film and Television ............................ 3
- MAT 112 — Digital Drawing ................................................................. 3
- MAT 132 — Digital Imaging II ............................................................ 3
- MAT 152 — Compositing and Visual Effects for Animation .................... 3
- MAT 153 — Web Design I ................................................................. 3
- MAT 169 — Serious Game Production .................................................. 3

*Students must complete all department requirements for the certificate with a cumulative GPA of 2.0 or better. Candidates for a Certificate of Achievement are required to complete at least 20% of the department requirements through SBCC.*
AA Degree: Media Arts

Department Requirements (18 units)
GDP 110 — Media Design or
  MAT 112 — Digital Drawing ................................................. 3
MAT 103 — Introduction to Multimedia .................................... 3
MAT 116 — Flash I: Interactive Fundamentals or
  MAT 121 — Computer Interface Design or
  MAT 136/DRFT 136 — Computer Animation I ......................... 3
MAT 131 — Digital Imaging I .................................................. 3
MAT 153 — Web Design I ....................................................... 3
MAT 154 — Web Design II: Integration or
  MAT 205 — Portfolio Development and Professional Practices or
  MAT 216 — Flash II: Interactive Story-Telling and Simple Games ................................................. 3

Recommended Course Sequence
First semester: GDP 110, MAT 103, 112 and 131
Second semester: MAT 116 or 121 or 136, 153, 154 or 205 or 216.

Students must complete all department requirements for the certificate with a cumulative GPA of 2.0 or better. Candidates for a Certificate of Achievement are required to complete at least 20% of the department requirements through SBCC.

Skills Competency Award:
Web Marketing and Media Design

Department Requirements (12 units)
GDP 110 — Media Design ................................................. 3
MAT 131 — Digital Imaging I .................................................. 3
MAT 153 — Web Design I ....................................................... 3
MAT 154 — Web Design II: Integration or
  MAT 205 — Portfolio Development and Professional Practices or
  MAT 216 — Flash II: Interactive Story-Telling and Simple Games ................................................. 3

Students must complete the above courses with a grade of “C” or higher or credit in all courses.

Skills Competency Award:
Media Design and Development

Department Requirements (9 units)
MAT 116 — Flash I: Interactive Fundamentals ......................... 3
MAT 145 — Video Game Design ............................................. 3
MAT/FP 179 — Media for Mobile Devices ................................ 3

Students must complete the above courses with a grade of “C” or higher or credit in all courses.

Skills Competency Award: Mobile Media Core

Department Requirements (3 units)
MAT/MKT 164 — Online and Mobile Marketing ....................... 3

Students must complete the above courses with a grade of “C” or higher or credit in all courses.

Department Award: Game Design

Department Requirements (15 units)
MAT 116 — Flash I: Interactive Fundamentals ......................... 3
MAT 121 — Interface Design ................................................. 3
MAT 131 — Digital Imaging I .................................................. 3
MAT 136 — Computer Animation I ......................................... 3
MAT 145 — Video Game Design ............................................. 3
Students must complete the above courses with a grade of “C” or higher or credit in all courses.

Recommended Courses:
MAT 103 — Introduction to Multimedia ......................................... 3
MAT 130 — Fundamentals of Digital Animation ................................. 3
MAT — Visual Effects for Film, TV and Gaming ..................................... 3
MAT 137 — Visual Effects Film, TV and Gaming ................................. 3
MAT 290 — Work Experience in Multimedia ...................................... 1-4

Recommended Course Sequence
Semester 1
MAT 131 — Digital Imaging I ............................................................ 3
MAT 136 — Computer Animation I ..................................................... 3
Semester 2
MAT 116 — Flash I: Interactive Fundamentals .................................... 3
MAT 121 — Interface Design ............................................................. 3
MAT 145 — Video Game Design ......................................................... 3

Program Cost and Outcome
For planning purposes, the following webpages provide information on the cost of attendance, program length (assuming a student attends full-time), financing options and historical student completion rates:
Animation
www sbcc edu/financialaid/gainfulemployment/Animation.htm
Media Arts
www sbcc edu/financialaid/gainfulemployment/ Media%20Arts.htm

Multimedia Arts and Technologies Courses
MAT 103 — Introduction to Multimedia (3) — CSU, UC
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 90 (36 lecture, 54 lab)
Introduction to multimedia, including production processes, tools, techniques, trends and design principles, and production requirements of interactive multimedia development for the Web on different devices. Provides a comprehensive look at the concepts and principles of digital media, visual literacy and the influence on business, education, art, science and culture.

MAT 105 — Survey of Multimedia Tools (3) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Course Advisories: MAT 103
Hours: 90 (36 lecture, 54 lab)
Overview of tools and applications used to produce interactive multimedia, including software applications, peripherals and hardware. Major applications for design, photo processing, web design, authoring and video. Evaluation and description of the strengths of each program and potential for integration of production applications.

MAT 109/COMP 137B — Informational Graphics for the Web (0.5)
Course Advisories: COMP 132B
Hours: 9 lecture
Overview of how to create and publish webpages, using informational graphics, from existing office application files (MS Word, Excel, PowerPoint, Filemaker, etc.).

MAT 112 — Digital Drawing (3) — CSU, UC
Hours: 90 (36 lecture, 54 lab)
Introduction to digital drawing through the powerful art tool Adobe Illustrator. Create vector-based artwork that translates well to other graphic software and media. Create icons, characters, illustrations, interface elements and patterns. Work with type, native 2D shapes, 3D effects and vectorized bitmaps.

MAT 113 — Dreamweaver (3) — CSU, UC
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 90 (36 lecture, 54 lab)
Students learn how to use a popular tool for web page design and construction called Dreamweaver. Includes how to inset images, create frames, make links, use forms, and manage websites by creating actual web pages.
MAT 114 — Dreamweaver II. Web Development
(3) — CSU, UC
Hours: 90 (36 lecture, 54 lab)
Students develop a responsive website, using HTML5, CSS3 and JavaScript with the latest Dreamweaver release, while learning best practices for accessibility, usability and search engine optimization.

MAT 116 — Flash I: Interactive Fundamentals
(3) — CSU, UC
Hours: 90 (36 lecture, 54 lab)
Students create interactive applications that result in a rich-media user experience on the web, using Adobe Flash. A foundation in animation, interactive principles, interface design, streaming media and ActionScripting 3.0 coding is developed.

MAT 118 — 2D Animation Techniques
(3) — CSU, UC
Hours: 90 (36 lecture, 54 lab)
Students develop stronger skills in 2D digital Animation. Students work with timing, storytelling, audio syncing, stop-motion, rotoscoping and matting techniques. They explore and recognize styles and techniques, incorporate both vector-based and bitmap graphics, and integrate photographic and video material.

MAT 121 — Computer Interface Design
(3) — CSU, UC
Hours: 90 (36 lecture, 54 lab)
Building Graphic user-interfaces (GUI) through the principles of computer interaction: window, icon, menu and mouse activity. Strategies to organize information on an interactive screen. Case studies: computer, web and mobile devices/apps, behavior, usability (UX) and basic prototyping. Good digital graphic skills required.

MAT 130 — Fundamentals of Digital Animation
(3) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Course Advisories: ART 124A
Hours: 54 lecture
Introduction to digital animation, including production processes, tools, techniques, trends and opportunities. Examines the issues and limitations of various digital image and animation formats as to resolution, color and motion. Provides an overview of various industries utilizing digital animation, including terminology and methodology.

MAT 131 — Digital Imaging I
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 90 (36 lecture, 54 lab)
Introduction to the image processing capabilities of Photoshop to create and edit images and to prepare images for various media. No prior knowledge of Photoshop is required. Includes tools selection, channels, layers, filters, text, brushes, effects, masks, adjustment layers.

MAT 132 — Digital Imaging II
(3) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Course Advisories: MAT 112 and 131
Hours: 90 (36 lecture, 54 lab)
Advanced Photoshop/Illustrator course which builds on skills learned in MAT 131 and 112. Students work on projects which challenge their creativity and technical ability. Working with this image manipulation software, students develop complex commercial and surreal projects.

MAT 136 — Computer Animation I
(3) — CSU, UC
Hours: 90 (36 lecture, 54 lab)
Fundamentals of computer animation, including modeling, animation and rendering. Focus on computer animation tools and techniques. Builds a solid foundation for developing character animation and special-effect sequences.

MAT 137 — Visual Effects for Film, Television and Gaming
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 90 (36 lecture, 54 lab)
Visual effects using 3D and compositing software to complete the scene production. Utilizing particles, rigid-bodies and soft bodies, students apply techniques for creating natural phenomena, such as waterfalls and blowing leaves. Also explored are methods for simulating physical interactions, such as a chair falling down a staircase.
MAT 138 — 3D Character Animation  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 90 (36 lecture, 54 lab)  
Advanced 3D computer animation course on character animation, including character design, modeling techniques for bodies, heads, hands and feet, skeletal and muscle systems, facial animation and lip-syncing to dialogue.

MAT 139 — 3D Lighting and Rendering  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 90 (36 lecture, 54 lab)  
Advanced 3D computer animation course on the art and science of lighting and rendering. Techniques for creating photo-realistic computer-generated imagery explored, including lighting, shadowing, texture mapping and shader manipulation.

MAT 141 — 3D Modeling  
(3) — CSU, UC  
Hours: 90 (36 lecture, 54 lab)  
Fundamentals of 3D modeling, texturing, lighting and rendering. Focus on 3D modeling tools and techniques. Builds a solid foundation for designing and modeling products, characters, sets and props for animation, product advertisements, movies and video games.

MAT 145 — Video Game Design  
(3) — CSU  
Skills Advisories: Eligibility for ENG 98 and 103  
Course Advisories: MAT 103  
Hours: 90 (36 lecture, 54 lab)  
Introduction to the design and development of games. Learn about the computer gaming industry, script-writing and storyboarding. Gain skills through the design and prototyping of a game.

MAT 149/COMP 149 — Social Networking and Social Media  
(3) — CSU  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture  
Use, creation and distribution of various media formats and content as they relate to social networking in media-related fields and professions. Through a variety of social networking and media applications, content is developed, integrated and leveraged, using social networks/applications that employ public content. Students learn how the creation, consumption and distribution of media content establish networks and communities of shared interests for professional media designers and producers. Teaches the applied use of such online applications as Wikis, Youtube, Vimeo, Flickr, Myspace, Facebook, Digg, etc. and their roles across media-oriented platforms, from personal computers to smartphones.

MAT 152 — Compositing and Visual Effects for Animation  
(3) — CSU  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 90 (36 lecture, 54 lab)  
Introduction to compositing and visual effects for computer animation. Working with Maya image sequences and alpha channel information. Color manipulation, filtering, keying (blue/green screen processing), camera tracking, rotoscoping and layering are used to create photo-realistic visual effects sequences.

MAT 153 — Web Design I  
(3) — CSU  
Skills Advisories: Eligibility for ENG 98 and 103  
Course Advisories: ART 140  
Hours: 90 (36 lecture, 54 lab)  
Covers the process of designing, developing and publishing websites. Students communicate with clients, negotiate a contract, set production schedules, design interfaces, develop content, and produce a website. Significant emphasis on designing attractive yet highly-functional sites. Course is project-driven. Students learn by redesigning a pre-existing website or creating a new one.

MAT 154 — Web Design II: Integration  
(3) — CSU  
Prerequisites: MAT 153  
Hours: 90 (36 lecture, 54 lab)  
Students learn how to use popular Web design tools (Image Ready, Dreamweaver and Flash) for optimizing images and creating websites. Covers a range of tasks and functions of each software. Students learn the software by designing and creating a website.
MAT 164/MKT 164 — Online and Mobile Marketing
(3) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 lecture

Introduction to those components needed to develop effective online and search engine marketing (SEM) strategies. Emerging digital media and mobile advertising campaign development are emphasized. Includes search engine optimization (SEO), paid placement ads, keyword identification, placement strategies, SEM research and management tools, and advertising applications in mobile marketing and video advertising.

MAT 167 — 3D Environments Design
(3) — CSU

Hours: 90 (36 lecture, 54 lab)

Create assets for visualization and games. Includes modeling, environmental lighting, advanced textures, project workflow and management. Students complete a photo-realistic model for visualization or a game project versus portfolio preparation.

MAT 168 — Serious Game Prototyping
(3) — CSU

Hours: 90 (36 lecture, 54 lab)

Prototyping games for virtual reality, simulations, education and marketing. Topics include game play, game-based learning, game concept development and game prototyping. Students explore game prototyping through hands-on projects.

MAT 169 — Serious Game Production
(3) — CSU

Hours: 90 (36 lecture, 54 lab)

Serious game design project planning and production through hands-on experience. Students work in teams to design and complete a game project, providing each student with portfolio preparation.

MAT 183 — Radio Production I
(3) — CSU

Skills Advisories: Eligibility for ENG 98 and 103
Hours: 90 (36 lecture, 54 lab)

Introduction to fundamentals of radio production, including studio and field work. Covers producing, managing, scheduling and broadcasting/multicasting for a modern radio station. Through basic studio exercises and productions, including commercials, public service announcements, interview programs and general programming, students learn the tools of the medium, radio station formats and the creation of radio programming.

MAT 205 — Portfolio Development and Professional Practices
(3) — CSU

In this final course, students learn how to prepare for media arts careers (web design, graphic design, audio, animation, photography and video). Communicating with employers through cover letters and interview, developing resumes and portfolios/reels, and using online resources for job hunting are covered. For the person who has taken several media arts courses and is nearing completion of the program.

MAT 216 — Flash II: Interactive Story-telling and Simple Games
(3) — CSU

Prerequisites: MAT 116
Hours: 90 (36 lecture, 54 lab)

Students use Flash software for creating websites, interactive art pieces and simple games. Covers a range of tasks and functions of the software: Tween engines, movieclip construction to organize interactive content, creating and positioning movieclips with ActionScripting, Working with external media, simple XML, using Action Scripting 3.0.

MAT 290 — Work Experience in Multimedia
(1-4) — CSU

Supervised employment of students in multimedia and related industries consists of 75-300 hours of work (1-4 units) in employment, plus 2 hours of individual student/faculty conference.
Music

Degrees, Certificates and Awards
Associate in Arts Degree: Music
Certificate of Achievement: Commercial Music
Department Award: Music

Program Description
The Santa Barbara City College Music Department offers a comprehensive program aimed at reaching each student of music, both major and non-major alike. It provides the music major with a thorough basis in the creative (theory, composition, interpretation) and recreative (performance, applied music, history and appreciation) realms of musical endeavor and enjoyment. For those interested in the commercial music field, the department offers courses in jazz, sound recording and electronic music, song writing and arranging. Non-majors seeking a better understanding of music can participate in performance groups and classes in theory, history and instrumental instruction, among others.

The Associate in Arts Degree is conferred upon completion of the two-year program of study as a Music major and completion of the state and local requirements outlined later in this section. Courses are structured to offer an articulated transfer program for the major and a core of courses is offered to satisfy and nourish the reentry and continuing non-major student seeking an expressive and enjoyable musical experience.

The facilities at SBCC feature the finest in performance and rehearsal areas, no-cost use of musical instruments, individual practice rooms, and an array of special resources and equipment designed to aid students in their musical studies and achievements.

Program Student Learning Outcomes
1. Demonstrate the ability to describe significant genres of music, using appropriate music staff notation and vocabulary.
2. Aurally identify characteristic elements of music.
3. Demonstrate the ability to analyze and critically evaluate a musical performance.
4. Demonstrate a basic understanding of and skill level in the use of music technology.
5. Demonstrate effective communication skills in music notation and written assignments.
6. Identify significant social, cultural, aesthetic and historical trends in music and assess the implications and consequences of these trends.
7. Demonstrate the ability to perform through participation in Music Department vocal and/or instrumental groups.

Department Office
Music Library (DM-103, ext. 2379)
General Information (ext. 2379)
James Watson, Department Aide (DM-104, ext. 2379)
Alice Perez, Dean (A-118, ext. 2354)

Faculty and Offices
John Clark, Chair (DM-120, ext. 2496)
Eric Heidner (DM-121, ext. 2234)
Margaret Hontos (DM-123, ext. 2232)
Nathan Kreitzer (DM-118, ext. 2230)
James Mooy (DM-119, ext. 2739)
Hourly Faculty (DM-117, ext. 2495)

AA Degree: Music
Department Requirements (41 units)
MUS 102A-B — Basic Musicianship ........................................ 3-3
MUS 104A-B — Beginning Theory........................................ 3-3
MUS 114A-B — Survey of Music History ............................. 3-3
MUS 140A-B — Beginning Piano........................................ 1-1
MUS 142A-B — Intermediate Piano................................. 1-1
MUS 150 — Beginning String Techniques ......................... 1
MUS 152 — Beginning Wind and Percussion Techniques ... 1
MUS 154 — Vocal Techniques I ........................................ 1
MUS 202A-B — Intermediate Musicianship ....................... 3-3
MUS 204A-B — Intermediate Theory ................................ 3-3

Controlled Electives: 4 units of Performance selected from:

College Requirements
For complete information, see “Graduation Requirements” in the Catalog Index.
Certificate of Achievement: Commercial Music Department Requirements (33-37 units)

MUS 102A — Basic Musicianship ........................................ 3
MUS 102B — Basic Musicianship ........................................ 3
MUS 104A — Beginning Theory ........................................ 3
MUS 104B — Beginning Theory ........................................ 3
MUS 112 — Hist. & Appr. Cont. Jazz/20th Am Cent. Mus...3
MUS 120A — Sound Recording and Electronic Music ..........3
MUS 120B — Sound Recording and Electronic Music ..........3
MUS 128A — Songwriting I ........................................ 3
MUS 128B — Songwriting II ........................................ 3
MUS 165 — Beginning Jazz Improvisation ....................... 1
MUS 166 — Intermediate/Advanced Jazz Improvisation ....1
And 4 to 8 units (1-2 units each semester for a total of 4
semesters) of Music Performance selected from:
MUS 156, 157, 160 (43), 162 (45), 163, 164, 167 (52), 168,
169, 170 (61), 171, 172 (33), 174 (63), 175, 176 (71), 177,
and 178 (77)

Complete all department requirements for the certificate with
a cumulative grade point average (GPA) of 2.0 or better.
Candidates for a Certificate of Achievement are required
to complete at least 20% of the department requirements
through SBCC.

Department Award: Music (24-25 units)

Students who have successfully completed a
defined program of study in the area of Music earn a
Departmental Award. The program of study can be
completed in one year and covers three broad areas;
historical, theoretical and skill-based music courses, i.e.,
musicianship, technique classes, historical survey and
performance ensembles. These courses are intended
to give the student a complete introduction to a course
of study in Music, culminating in a Departmental Award
in Music. There are neither college requirements nor
General Education requirements that need be taken. A
complete description of the Music Departmental Award
requirements is listed below:
MUS 102A-B — Basic Musicianship ................................. 3-3
MUS 104A-B — Beginning Theory ................................. 3-3
Select two (2) courses from the following:
MUS 110 — Music Appreciation or .................................. 3
MUS 110H — Music Appreciation, Honors ...................... 4
MUS 112 — History and Appreciation of Contemporary
Jazz and 20th Century American Music ........................... 3
MUS 114A — Survey of Music History ............................. 3
MUS 114B — Survey of Music History ............................. 3
MUS 115 — History and Appreciation of
Rock and Popular Music ........................................... 3
MUS 118 — World Music ............................................. 3
Complete two units (1 unit each semester for a total of two
semesters) of Beginning or Intermediate Piano selected
from the following (may be passed by exam for experienced
pianists; see Mrs. Josephine Brummel):
MUS 140A-B — Beginning Piano ................................. 1-1
MUS 142A-B — Intermediate Piano ............................... 1-1
Complete two courses (minimum of 1 unit each semester
for a total of two semesters) of Performance organization
selected from the following (private organizations outside
of the college curriculum do not count as a Performance
organization for music majors): MUS 156, 157, 160, 162, 163,
164, 165, 167, 170, 171, 175, 176
Complete two units (1 unit each semester for a total of two
semesters) of vocal or Instrumental Technique selected from
the following (Note: two semesters of Applied Music [MUS 185
and/or 285 below] may be used to satisfy this requirement):
MUS 150, 152, 154, 155

Optional:
MUS 185 or 285 — Applied Music (private voice or instrument
lessons for those who are enrolled in Musicianship, Theory,
and a Performance organization and are chosen by an
audition held the first Friday of the semester):
MUS 185 — Applied Music ............................................ 3
MUS 285 — Applied Music ............................................ 3
A student must complete each of the courses required with a
grade of “C” or better.

Planning a Program of Study

The core courses in Music are not offered each
semester. Programs must be started in the Fall
Semester, as the beginning theory and musicianship
courses are offered only in the fall, with their sequels
scheduled in the spring.

Special problems confront the transfer student
planning to attend a four-year college or university.
Articulation agreements have been arranged with
several institutions (UCSB, CSU, Northridge, etc.)
Consult Carmen Rivero in the Counseling Center for
details on transfer, ext. 2285.
Preparation for Transfer
Course requirements for transfer vary depending upon the college or university a student wishes to attend. Therefore, it is most important for a student to consult with his/her counselor and departmental adviser before planning an academic program for transfer. Information sheets for majors, outlining transfer requirements, are available in the Counseling Center.

Honors and Awards
The Music Department selects one student each year as the outstanding student for that academic year. Selections are made by the Music faculty and a certificate is awarded. The selection is based on academic and musical achievement and group participation. Application by students is required.

Music Scholarships
The Harold M. Dunn/Mahlon Balderston Scholarship of $750 and the Guido Bart Scholarship of $500 may be awarded each year on the basis of academic excellence and financial need. To qualify for the grant, a student must be a declared Music major, be enrolled in a minimum of 12 units and have a 3.0 or above overall grade point average. All students with exceptional GPAs are encouraged to apply. Applications are available from the Music Department Office, Room DM-104, and Financial Aid. Scholarships for vocal and instrumental performance are also available by application.

Tutorial Opportunities
Each semester, the Music Department is allocated funds to hire tutors. Students who have performed well in a course and who demonstrate an interest in teaching are selected by the instructors to tutor students currently enrolled in Music courses. The purpose is to encourage students to learn the techniques of teaching, as well as to reinforce and enhance their own learning through teaching their peers.

Special Departmental Resources
In addition to the wide range of classes available to them, students also have access to computerized music instruction, the Tapmaster rhythm and sight-reading program, an electronic music and recording laboratory, digital piano laboratory, listening laboratory with laser disc technology, and practice rooms.

Advising
A Music major meeting is held at the beginning of the academic year to inform students of advisory assistance and information available to them through the Music counselor and the Music faculty. The student is encouraged to consider a broad-based major and minor course of study in order to acquaint him/herself with the many career options.

Student Participation
Music majors are encouraged to assist in concert production and perform in student recitals held each semester.

Program Cost and Outcome
For planning purposes, the following webpage provides information on the cost of attendance, program length (assuming a student attends full time), financing options and historical student completion rates:

www.sbcc.edu/financialaid/gainfulemployment/Commercial%20Music.htm

Music Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
<th>CSU, UC</th>
<th>Skills Advisories</th>
<th>Hours</th>
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<tbody>
<tr>
<td>MUS 100</td>
<td>Fundamentals of Music Techniques</td>
<td>3</td>
<td>CSU, UC</td>
<td>Eligibility for ENG 103</td>
<td>54 lecture</td>
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<tr>
<td>MUS 102A</td>
<td>Basic Musicianship</td>
<td>3</td>
<td>CSU, UC</td>
<td>Eligibility for ENG 103</td>
<td>54 lecture</td>
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<tr>
<td>MUS 102B</td>
<td>Basic Musicianship</td>
<td>3</td>
<td>CSU, UC</td>
<td>Eligibility for ENG 103</td>
<td>54 lecture</td>
</tr>
</tbody>
</table>

Learning to read music, developing aural perception, fundamentals of music theory and keyboard skills. (Primarily for non-Music majors)

Music majors only; non-majors, see MUS 100.
Musicianship fundamentals for college freshmen or sophomores. Beginning aural and dictation skills are developed to allow the student to solve practical as well as theoretical musical problems. Music majors only; non-majors, see MUS 100.

**MUS 104A — Beginning Theory**  
(3) — CSU, UC  
Corequisites: MUS 102A  
Skills Advisories: Eligibility for ENG 103  
Hours: 54 lecture

Intervals, keys, scales, chord structure and relationship of diatonic harmonies and non-chordal tones, cadences, harmonization of melodies. Music majors only; non-majors, see MUS 100.

**MUS 104B — Beginning Theory**  
(3) — CSU, UC  
Prerequisites: MUS 104A  
Corequisites: MUS 102B  
Skills Advisories: Eligibility for ENG 103  
Hours: 54 lecture

Intervals, keys, scales, chord structure and relationship of diatonic harmonies and non-chordal tones, cadences, harmonization of melodies. Music majors only; non-majors, see MUS 100.

**MUS 106 — Jazz Theory**  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 103  
Hours: 54 lecture

Study of the fundamental melodic and harmonic principles associated with jazz and commercial music composition. Emphasis on analytical skills and writing assignments.

**MUS 110 — Music Appreciation**  
(3) — CSU, UC*  
Skills Advisories: Eligibility for ENG 103  
Hours: 54 lecture

Survey of music history and literature; its elements, construction, forms, styles and composers from Medieval through contemporary periods. Guided listening to masterpieces. Concert attendance. Primarily for non-Music majors. (*UC Transfer Limit: MUS 110 and 110H combined: maximum credit, one course.)

**MUS 110H — Music Appreciation, Honors**  
(4) — CSU, UC*  
Skills Advisories: Eligibility for ENG 110 or 110H  
Limitation on Enrollment: Honors Program Acceptance  
Hours: 72 lecture

Survey of music history and literature; its elements, construction, forms, styles and composers from Medieval through contemporary periods. Guided listening to masterpieces. Concert attendance. Primarily for non-Music majors. (*UC Transfer Limit: MUS 110 and 110H combined: maximum credit, one course.)

**MUS 111 — Classical Music Performance**  
(1) — CSU, UC  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 18 lecture

Live performances of world-class artists and orchestras presented by the Community Arts Music Association. Study of musical literature performed at these concerts.

**MUS 112 — History and Appreciation of Contemporary Jazz and 20th Century American Music**  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 103  
Hours: 54 lecture

General survey of jazz music history of the 20th century, with emphasis on eclecticism as it relates to current musical styles. Primarily for non-Music majors.

**MUS 114A — Survey of Music History**  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 103  
Hours: 54 lecture

Survey of music history and literature (114A: Greek to Baroque; 114B: Pre-Classic to Modern). A Music major course also open to non-majors that requires some music theory background. One hour a week of outside listening or reading is required.

**MUS 114B — Survey of Music History**  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 103  
Hours: 54 lecture

Survey of music history and literature. A music major course also open to non-majors that requires some music theory background. One hour a week of outside listening or reading is required.
MUS 115 — History and Appreciation of Rock and Popular Music
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 103
Hours: 54 lecture
General survey of rock and popular music, concentrating on the period from the late 1940s to the late 1990s. Primarily for non-Music majors.

MUS 118 — World Music
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 103
Hours: 54 lecture
Survey of world music traditions, including the style and performance practice of various cultures and the resulting social, cultural and historical role of the music and musicians.

MUS 119 — Middle Eastern Music, Dance and Culture
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 103
Hours: 54 lecture
Introduction to Middle Eastern music and dance in both lecture and practical settings, emphasizing combinations and choreographies for various folk and classical dances, as well as aspects of music performance in singing on percussion instruments.

MUS 120A — Sound Recording and Electronic Music
(3) — CSU
Skills Advisories: Eligibility for ENG 103
Hours: 54 lecture
Concepts and procedures of sound recording and electronic music production, utilizing synthesizers, samplers, computers, etc.

MUS 120B — Sound Recording and Electronic Music
(3) — CSU
Prerequisites: MUS 120A
Skills Advisories: Eligibility for ENG 103
Hours: 54 lecture
Intermediate-level continuation, with emphasis on composition/analysis.

MUS 122 — Music Technology for Musicians
(3) — CSU
Skills Advisories: Eligibility for ENG 103
Course Advisories: MUS 100
Hours: 54 lecture
Introduction to the basic techniques of computer-based composition, notation, digital audio editing and encoding techniques for musicians. Recommended for Music majors.

MUS 123 — Business of Music
(3) — CSU
Skills Advisories: Eligibility for ENG 103
Hours: 54 lecture
Designed to give students information on all aspects of the business of music, including entrepreneurial opportunities, management and promotion skills, basic elements of copyright, publishing and management contract laws.

MUS 126 — Commercial Music: Orchestration
(3) — CSU
Prerequisites: MUS 104A and 104B
Skills Advisories: Eligibility for ENG 103
Hours: 54 lecture
Practical approach to writing for various instrumental groups and the orchestra. An analytical study of orchestral compositions.

MUS 128A — Song Writing I
(3) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 lecture
Study of the skills and techniques of popular song writing in a variety of genres. Topics include lyrics, song structures, chord progressions, melodies and analysis of popular songs.

MUS 128B — Song Writing II
(3) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 lecture
Study and practice of the skills and techniques of popular song writing in a variety of genres. Second semester includes more commercial applications for advertising, writing for instruments and arranging.
MUS 129 — Commercial Music Projects
(3) — CSU
Skills Advisories: Eligibility for ENG 103
Hours: 54 lecture

Songwriting in specific styles and genres including movie and TV songs, country, ballades, alt country, dance music, alternative.

MUS 129A — Intermediate Songwriting I
(3) — CSU
Skills Advisories: Eligibility for ENG 103
Hours: 54 lecture

Continued study and practice of the skills and techniques of popular song writing in a variety of genres. Emphasis on commercial applications for advertising, writing for instruments and arranging.

MUS 129B — Intermediate Songwriting II
(3) — CSU
Skills Advisories: Eligibility for ENG 103
Hours: 54 lecture

Commercial applications, including songwriting for advertising, writing for instruments and arranging.

MUS 132A — Summer Jazz Seminar
(0.7) — CSU, UC
Skills Advisories: Eligibility for ENG 103
Hours: 36 lab

Exploratory courses in jazz designed to supplement regular college and school programs with training in the areas of instrumental jazz performance. Open to students performing on jazz instruments.

MUS 132B — Summer Jazz Seminar II
(1) — CSU, UC
Skills Advisories: Eligibility for ENG 103
Hours: 54 lab

Exploratory courses in jazz, with continued training in instrumental jazz performance. Open to students performing on jazz instruments.

MUS 133 — Summer Jazz Seminar: Intermediate
(1) — CSU
Skills Advisories: Eligibility for ENG 103
Course Advisories: MUS 132
Hours: 36 lecture

Intermediate courses in jazz designed to supplement regular school and college programs with training in instrumental jazz performance. Open to students performing on jazz instruments.

MUS 140A — Beginning Piano
(1) — CSU, UC
Skills Advisories: Eligibility for ENG 103
Hours: 36 (18 lecture, 18 lab)

Beginning piano technique for adults. Scales, chords, sight reading and musical interpretation of simplified arrangements of the standard classics.

MUS 140B — Beginning Piano
(1) — CSU, UC
Prerequisites: MUS 140A
Skills Advisories: Eligibility for ENG 103
Hours: 36 (18 lecture, 18 lab)

Beginning piano technique for adults. Scales, chords, sight reading and musical interpretation of simplified arrangements of the standard classics.

MUS 142A — Intermediate Piano
(1) — CSU, UC
Prerequisites: MUS 140B
Skills Advisories: Eligibility for ENG 103
Hours: 36 (18 lecture, 18 lab)

Class piano techniques for intermediate students; designed to provide pleasure in playing the piano. Development of skills in sight reading, melody harmonization, improvisation, transposition and musical interpretation of the standard classics.

MUS 142B — Intermediate Piano
(1) — CSU, UC
Prerequisites: MUS 142A
Skills Advisories: Eligibility for ENG 103
Hours: 36 (18 lecture, 18 lab)

Class piano techniques for intermediate students; designed to provide pleasure in playing the piano. Development of skills in sight reading, melody harmonization, improvisation, transposition and musical interpretation of the standard classics.

MUS 143 — Piano Ensemble and Introduction to Accompanying
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 103
Course Advisories: MUS 100 and 140B
Hours: 54 lecture
Exploration of piano duet (four hands and two-piano) literature. Students learn to accompany vocalists, instrumentalists and choirs. Procedures, etiquette and techniques to successfully support students, teachers and choir directors. Requires participation in rehearsals and recitals, and other performances.

**MUS 146 — Beginning Guitar**  
(1) — CSU, UC  
*Skills Advisories: Eligibility for ENG 103*  
*Hours: 54 lab*  
Class method for beginning guitar students to provide pleasure in playing the guitar. Development of skills in note-reading, sight-reading, chord symbols and understanding music theory.

**MUS 148 — Intermediate Guitar**  
(1) — CSU, UC  
*Skills Advisories: Eligibility for ENG 103*  
*Course Advisories: MUS 146*  
*Hours: 54 lab*  
For intermediate guitarists. Skills in reading more complex chord symbols, chord progressions, voice leading, major scales in all positions, inversions of triads, and right-hand finger-picking patterns.

**MUS 150 — Beginning String Techniques**  
(1) — CSU, UC  
*Skills Advisories: Eligibility for ENG 103*  
*Hours: 54 lab*  
Instruction in the fundamentals of playing an orchestral string instrument (violin, viola, cello and string bass). Any student may enroll, but Music majors are given first priority on use of college instruments.

**MUS 151 — Intermediate String Techniques**  
(1) — CSU, UC  
*Prerequisites: MUS 150*  
*Skills Advisories: Eligibility for ENG 103*  
*Hours: 36 (18 lecture, 18 lab)*  
Continuation of instruction in the fundamentals of playing an orchestral string instrument (violin, viola, cello and string bass). Any student may enroll, but Music majors are given first priority on use of college instruments.

**MUS 152 — Beginning Wind and Percussion Techniques**  
(1) — CSU, UC  
*Skills Advisories: Eligibility for ENG 103*  
*Hours: 54 lab*  
Introduction to the basic techniques of instrumental performance—brass, woodwind and percussion. Recommended for Music majors.

**MUS 153 — Intermediate Wind and Percussion Techniques**  
(1) — CSU, UC  
*Prerequisites: MUS 152*  
*Skills Advisories: Eligibility for ENG 103*  
*Hours: 36 (18 lecture, 18 lab)*  
Continuation of instruction in the basic techniques of instrumental performance—brass, woodwind and percussion. Ensemble experience for Music majors and others on their secondary instruments.

**MUS 154 — Vocal Techniques I**  
(1) — CSU, UC  
*Skills Advisories: Eligibility for ENG 103*  
*Hours: 54 lab*  
Development of fundamental singing skills, including stage presence, posture, breath control, tone production, diction, musical interpretation and preparation of musical selections for performance.

**MUS 155 — Vocal Techniques II**  
(1) — CSU, UC  
*Skills Advisories: Eligibility for ENG 103*  
*Course Advisories: MUS 154*  
*Hours: 54 lab*  
Development of skills in singing. Emphasis placed on solo performance.

**MUS 156 — Bebop Vocal Jazz Ensemble**  
(1) — CSU, UC  
*Skills Advisories: Eligibility for ENG 103*  
*Limitation on Enrollment: Audition with instructor.*  
*Hours: 54 lecture*  
Study and performance of vocal jazz, with emphasis on the Bebop style. Students work on a wide variety of vocal jazz techniques. Public concerts scheduled for this ensemble each semester.
MUS 157 — Swing Vocal Jazz Ensemble
(1) — CSU, UC
Skills Advisories: Eligibility for ENG 103
Limitation on Enrollment: Audition with instructor.
Hours: 54 lecture
Study and performance of vocal jazz, with emphasis
on the Swing style. Students work on a wide variety of
vocal jazz techniques. Public concerts scheduled for
this ensemble each semester.

MUS 158 — Quire of Voyces: Medieval
(1) — CSU, UC
Skills Advisories: Eligibility for ENG 103
Limitation on Enrollment: Auditions for public
performance
Hours: 54 lecture
Study, performance and recording of sacred a cappella
choral music of the Medieval era. Frequent public
appearances.

MUS 159 — Men’s Chorus
(1) — CSU, UC
Hours: 54 lab
Study and performance of standard choral literature.
Public concert appearances.

MUS 160 — College Choir
(1) — CSU, UC
Skills Advisories: Eligibility for ENG 103
Hours: 54 lecture
Study and performance of standard choral literature.
Public concert appearances.

MUS 160B — College Choir B
(1) — CSU, UC
Skills Advisories: Eligibility for ENG 103
Limitation on Enrollment: Audition
Hours: 54 lab
Performance and rehearsal of choral literature. Public
concerts.

MUS 160C — College Choir C
(1) — CSU, UC
Skills Advisories: Eligibility for ENG 103
Hours: 54 lab
Performance and rehearsal of choral literature. Public
performances.

MUS 160D — College Choir D
(1) — CSU, UC
Skills Advisories: Eligibility for ENG 103
Hours: 54 lab
Performance and rehearsal of choral literature. Public
performances.

MUS 161 — Women’s Chorus
(1) — CSU
Skills Advisories: Eligibility for ENG 103
Hours: 54 lecture
Study and performance of standard choral literature.
Public concert appearances.

MUS 162 — Chamber Singers
(1) — CSU, UC
Skills Advisories: Eligibility for ENG 103
Limitation on Enrollment: Audition with instructor.
Hours: 54 lecture
Three-hour lectures, plus one hour weekly for public
performances. Study and performance of standard
choral literature for the small ensemble. Frequent
public appearances. Study and performance of
standard choral literature for the small ensemble.
Frequent public appearances.

MUS 162B — Chamber Singers: Modern
(1) — CSU, UC
Skills Advisories: Eligibility for ENG 103
Limitation on Enrollment: Audition
Hours: 54 lab
Study and performance of modern choral literature for
the small ensemble. Several concert performances.

MUS 162C — Chamber Singers Classic
(1) — CSU, UC
Skills Advisories: Eligibility for ENG 103
Hours: 54 lab
Study and performance of classical choral literature for
the small ensemble. Several Concert performances.

MUS 162D — Chamber Singers Romantic
(1) — CSU, UC
Skills Advisories: Eligibility for ENG 103
Hours: 54 lab
Study and performance of Romantic Era choral music
for the small ensemble.
MUS 163 — Quire of Voyces
(1) — CSU, UC
Skills Advisories: Eligibility for ENG 103
Limitation on Enrollment: Extensive audition.
Hours: 54 lecture

MUS 163B — Quire of Voyces: Modern
(1) — CSU, UC
Skills Advisories: Eligibility for ENG 103
Limitation on Enrollment: Audition
Hours: 54 lecture
Extensive audition. Study, performance and recording of sacred a cappella choral music of the modern era. Frequent public appearances.

MUS 164 — Vocal Jazz Ensemble
(1) — CSU, UC
Skills Advisories: Eligibility for ENG 103
Limitation on Enrollment: Audition with instructor.
Hours: 54 Lab
Study and performance of vocal jazz. Students work on a wide variety of vocal jazz styles and techniques. Public concerts for this ensemble each semester.

MUS 165 — Beginning Jazz Improvisation
(1) — CSU, UC
Skills Advisories: Eligibility for ENG 103
Limitation on Enrollment: Performance experience on a wind, string, or percussion instrument.
Hours: 54 lab
Beginning individual and small group improvisational techniques. Combo performance. Course placement level determined by interview/audition.

MUS 165B — Beginning Jazz Improvisation B
(1) — CSU, UC
Skills Advisories: Eligibility for ENG 103
Hours: 54 lab
Continued development of Jazz Improvisation Skills. Use of chord substitutions, ii - V7 turnarounds.

MUS 166 — Intermediate-Advanced Jazz Improvisation
(1) — CSU, UC
Prerequisites: MUS 165
Skills Advisories: Eligibility for ENG 103
Hours: 54 lab
Intermediate-advanced individual and small group jazz improvisation.

MUS 166B — Intermediate Jazz Improvisation B
(1) — CSU, UC
Skills Advisories: Eligibility for ENG 103
Hours: 54 lab
Intermediate Jazz Improvisation, including individual and small group performance.

MUS 167 — Beginning Jazz Ensemble
(1) — CSU, UC
Skills Advisories: Eligibility for ENG 103
Limitation on Enrollment: Previous jazz ensemble performance experience, or audition with instructor.
Hours: 54 lab
Performance of jazz ensemble literature. Beginning large ensemble performance techniques and pedagogy. Open to students with jazz ensemble experience.

MUS 167B — Beginning Jazz Ensemble B
(1) — CSU, UC
Skills Advisories: Eligibility for ENG 103
Limitation on Enrollment: Audition
Hours: 54 lecture
Performance class for students with beginning level big band jazz experience. Class includes public performances and participation in festivals.

MUS 167C — Beginning Jazz Ensemble C
(1) — CSU, UC
Skills Advisories: Eligibility for ENG 103
Hours: 54 lab
Performance Class for students with beginning level big band jazz experience. Class includes public performances and participation in festivals.

MUS 168 — Intermediate Jazz Ensemble
(1) — CSU, UC
Prerequisites: MUS 167
Skills Advisories: Eligibility for ENG 103
Limitation on Enrollment: Audition
Hours: 54 lab

**MUS 168B — Intermediate Jazz Ensemble B**  
(1) — CSU, UC  
Skills Advisories: Eligibility for ENG 103  
Limitation on Enrollment: Audition  
Hours: 54 lecture  
Performance class for students with intermediate level big band jazz experience. Class includes public performances and participation in festivals.

**MUS 168C — Intermediate Jazz Ensemble C**  
(1) — CSU, UC  
Skills Advisories: Eligibility for ENG 103  
Hours: 54 lab  
Performance class for students with intermediate-level big band jazz experience. Class includes public performances and participation in festivals.

**MUS 168D — Intermediate Jazz Ensemble D**  
(1) — CSU, UC  
Skills Advisories: Eligibility for ENG 103  
Hours: 54 lab  
Performance class for students with intermediate-level big band jazz experience. Class includes public performances and participation in festivals.

**MUS 169 — Advanced Jazz Ensemble**  
(1) — CSU, UC  
Prerequisites: MUS 168  
Skills Advisories: Eligibility for ENG 103  
Limitation on Enrollment: Audition  
Hours: 54 lab  
Performance of advanced jazz ensemble literature. Frequent public appearances and festival participation. Open to students with previous collegiate-level jazz ensemble performance experience.

**MUS 170 — Symphony Orchestra**  
(1) — CSU, UC  
Skills Advisories: Eligibility for ENG 103  
Limitation on Enrollment: Audition with instructor.  
Hours: 54 lab  
Performing ensemble open to all students with orchestral instrumental experience. Ensemble performs orchestral literature from all style periods in public performances on campus and in the community. Meets for three hours, one night a week.

**MUS 170B — Symphony Orchestra B**  
(1) — CSU, UC  
Skills Advisories: Eligibility for ENG 103  
Limitation on Enrollment: Auditions for public performance  
Hours: 54 lecture  
Audition with instructor. Performing ensemble open to all students with orchestral instrumental experience. Ensemble performs orchestral literature from all eras in public performances on campus and in the community. Meets for three hours, one night a week.

**MUS 170C — Symphony Orchestra C**  
(1) — CSU, UC  
Skills Advisories: Eligibility for ENG 103  
Hours: 54 lab  
Audition with instructor. Performing ensemble open to all students with orchestral instrumental experience. Ensemble performs orchestral literature from all eras in public performances on campus and in the community. Meets for three hours, one night a week.

**MUS 170D — Symphony Orchestra D**  
(1) — CSU, UC  
Skills Advisories: Eligibility for ENG 103  
Hours: 54 lab  
Audition with instructor. Performing ensemble open to all students with orchestral instrumental experience. Ensemble performs orchestral literature from all eras in public performances on campus and in the community. Meets for three hours, one night a week.

**MUS 171 — Chamber Music of the Baroque Era**  
(1) — CSU, UC  
Skills Advisories: Eligibility for ENG 103  
Hours: 54 lab  
Ensemble class that provides students the opportunity to perform chamber music of the 17th and 18th century Baroque era. Each performer is expected to improve his/her performance level and enhance group performance.

**MUS 172 — Intermediate Orchestra**  
(1) — CSU, UC  
Skills Advisories: Eligibility for ENG 103  
Limitation on Enrollment: Audition  
Hours: 54 lab
Ensemble class that continues to develop string techniques taught in Beginning and Intermediate String Techniques and that also develops new techniques. Students study music for various combinations of instruments.

**MUS 173 — Baroque Instrument Techniques**  
(1) — CSU, UC  
Skills Advisories: Eligibility for ENG 103  
Hours: 54 lab

Exploration of Baroque instrumental performance techniques as demonstrated through performance of Baroque masterworks. Elements include equipment requirements and preparation, leadership considerations, performance practice as it relates to ornamentation, dynamics, phrasing and presentation.

**MUS 173B — Chamber Orchestra: Baroque**  
(1) — CSU, UC  
Skills Advisories: Eligibility for ENG 103  
Hours: 54 lecture

Small group performance ensemble dedicated to Baroque music.

**MUS 174 — Chamber Music**  
(1) — CSU, UC  
Skills Advisories: Eligibility for ENG 103  
Hours: 54 lab

Ensemble class that provides an opportunity for students to perform standard chamber music literature from the 17th, 18th, 19th and 20th centuries. Individuals expected to improve their performance level and thus perfect the performance of the group.

**MUS 175 — Chamber Music: Modern Era**  
(1) — CSU, UC  
Skills Advisories: Eligibility for ENG 103  
Hours: 54 lab

Ensemble class that provides students the opportunity to perform chamber music of the 20th century, the modern era. Each performer is expected to improve his/her performance level and enhance group performance.

**MUS 176 — Concert Band**  
(1) — CSU, UC  
Skills Advisories: Eligibility for ENG 103  
Hours: 54 lab

Performance of concert and symphonic winds literature. Frequent public appearances and festival participation. Open to students with concert band experience.

**MUS 176B — Concert Band B**  
(1) — CSU, UC  
Skills Advisories: Eligibility for ENG 103  
Hours: 54 lecture

Performance of concert and symphonic winds literature. Frequent public appearances and festival participation. Open to students with concert band experience.

**MUS 177 — Symphonic Band**  
(1) — CSU, UC  
Skills Advisories: Eligibility for ENG 103  
Course Advisories: MUS 176  
Hours: 54 lab

Performance of concert band and symphonic wind ensemble literature. Public performances.

**MUS 177B — Symphonic Band B**  
(1) — CSU, UC  
Skills Advisories: Eligibility for ENG 103  
Hours: 54 lecture

Performance of concert band and symphonic wind ensemble literature. Public performances.

**MUS 178 — Wind Ensemble**  
(1) — CSU, UC  
Skills Advisories: Eligibility for ENG 103  
Hours: 54 lab

Small ensemble performance (brass quartet, woodwind quintet, etc.). Material selected from many music periods. Open to students with wind and percussion performance experience.

**MUS 179 — Commercial Music Performance: Jazz and Pop Emphasis**  
(1) — CSU  
Skills Advisories: Eligibility for ENG 103  
Course Advisories: MUS 169 or previous advanced collegiate or pre-professional performance experience.  
Hours: 48-54 lecture

Experience-centered training in jazz and pops performance. Performances in all commercial music applications.
MUS 181 — Commercial Music Performance: Classical Instrumental and Vocal Emphasis (0.5-2) — CSU
Skills Advisories: Eligibility for ENG 103
Course Advisories: MUS 160 or 162 or 163 or 170 or 176
Hours: 24-108 lab
Experience-centered training in classical instrumental and vocal performance in all commercial music applications. Open to students with previous advanced collegiate or professional performance experience.

MUS 182A — Chamber Singers: Spirituals (1) — CSU, UC
Skills Advisories: Eligibility for ENG 103
Hours: 54 lecture
Study and performance of spirituals for small vocal ensemble. Frequent public appearances.

MUS 182B — Chamber Singers: Broadway (1) — CSU, UC
Skills Advisories: Eligibility for ENG 103
Hours: 54 lecture
Study and performance of Broadway and musical theatre literature for the small ensemble. Frequent public appearances. Study and performance of standard choral literature for the small ensemble.

MUS 185 — Applied Music (3) — CSU, UC
Corequisites: MUS 102A and 104A or 102B and 104B and 160 or 162 or 163 or 165 or 166 or 167 or 168 or 169 or 170 or 172 or 174 or 176 or 177 or 178 or 179.
Skills Advisories: Eligibility for ENG 103
Hours: 126 (18 lecture, 108 lab)
Studio lessons in voice or on a specific woodwind, brass, string or percussion instrument. Emphasis on technical and literature studies.

MUS 186 — Intermediate A Applied Music (3) — CSU, UC
Skills Advisories: Eligibility for ENG 103
Hours: 126 (18 lecture, 108 lab)
Studio lessons in voice or on a specific woodwind, brass, string or percussion instrument. Emphasis on intermediate-level technical and literature studies.

MUS 188A — Big Band Jazz Ensemble I (1) — CSU, UC
Skills Advisories: Eligibility for ENG 103
Hours: 54 lecture
Performance class for students with previous big band jazz experience. Class includes public performances and participation in festivals.

MUS 188B — Big Band Jazz Ensemble II (1) — CSU, UC
Skills Advisories: Eligibility for ENG 103
Hours: 54 lecture
Performance-based course for students with previous big band jazz experience. Students must be able to perform collegiate-level big band jazz.

MUS 188C — Big Band Jazz Ensemble III (1) — CSU, UC
Skills Advisories: Eligibility for ENG 103
Hours: 54 lecture
Performance class for students with previous collegiate-level big band jazz experience. Class includes public performances and participation in festivals.

MUS 190 — Intermediate Choir (1) — CSU, UC
Skills Advisories: Eligibility for ENG 103
Hours: 54 lecture
Study and performance of Broadway and musical theatre literature for the small ensemble.

MUS 191 — Intermediate Choir B (1) — CSU, UC
Skills Advisories: Eligibility for ENG 103
Hours: 54 lecture
Study and performance of advanced intermediate pieces from the choral literature. Public concert appearances.

MUS 193 — Women’s Chorus (1) — CSU, UC
Skills Advisories: Eligibility for ENG 103
Hours: 54 lecture
Study and performance of female ensemble choral literature. Public concert appearances.
MUS 202A — Intermediate Musicianship
(3) — CSU, UC
Prerequisites: MUS 102B
Corequisites: MUS 204A
Skills Advisories: Eligibility for ENG 103
Hours: 54 lecture
Study of musicianship skills necessary to be a professional performer, composer or teacher. Includes development of advanced aural and dictation skills which allow the student to solve practical as well as theoretical musical problems. Music majors only.

MUS 202B — Intermediate Musicianship
(3) — CSU, UC
Prerequisites: MUS 202A
Corequisites: MUS 204B
Skills Advisories: Eligibility for ENG 103
Hours: 54 lecture
Study of musicianship skills necessary to be a professional performer, composer or teacher. Includes development of advanced aural and dictation skills which allow the student to solve practical as well as theoretical musical problems. Music majors only.

MUS 204A — Intermediate Theory
(3) — CSU, UC
Prerequisites: MUS 104B
Corequisites: MUS 202A
Skills Advisories: Eligibility for ENG 103
Hours: 54 lecture
Continuation of the harmonic techniques of Music 104A-B, with emphasis on the study of 16th century modal and tonal counterpoint, harmony and form. Study of 18th century harmonic and compositional techniques, as well as the study of chromatic harmonies of the 18th and 19th centuries, with emphasis on form, analysis and creative composition.

MUS 204B — Intermediate Theory
(3) — CSU, UC
Prerequisites: MUS 204A
Corequisites: MUS 202B
Skills Advisories: Eligibility for ENG 103
Hours: 54 lecture
Continuation of the harmonic techniques of MUS 104AB, with emphasis on 16th century modal and tonal counterpoint, harmony and form. Study of 18th century harmonic and compositional techniques, as well as the study of chromatic harmonies of the 18th and 19th centuries, with emphasis on form, analysis and creative composition.

MUS 205 — Quire of Voyces: Renaissance
(1) — CSU, UC
Skills Advisories: Eligibility for ENG 103
Hours: 54 lecture

MUS 206 — Latin Jazz Ensemble
(1) — CSU, UC
Skills Advisories: Eligibility for ENG 103
Hours: 54 lecture
Performance class for students, emphasizing Latin styles. Class includes public performances.

MUS 285 — Applied Music
(3) — CSU, UC
Corequisites: MUS 202A and 204A or 202B and 204B and 160 or 162 or 163 or 165 or 166 or 167 or 168 or 169 or 170 or 172 or 174 or 176 or 177 or 178 or 179.
Skills Advisories: Eligibility for ENG 103
Hours: 126 (18 lecture, 108 lab)
Studio lessons in voice or on a specific woodwind, brass, string or percussion instrument. Emphasis on technical and literature studies.

MUS 286 — Intermediate B Applied Music
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 103
Hours: 126 (18 lecture, 108 lab)
Studio lessons in voice or on a specific woodwind, brass, string or percussion instrument. Emphasis on technical and literature studies.

MUS 299 — Independent Study in Music
(1-4) — CSU
Skills Advisories: Eligibility for ENG 103
Limitation on Enrollment: Student must have completed 12 units at SBCC with A GPA of 2.5 and a minimum of 6 units with a GPA of 3.0 in the Department.
Hours: 48-192 lab
For complete information, see “Independent Study” in the Catalog Index. (*UC Transfer Limit: computed as Independent Study, see counselor)
School of Nursing

Degrees, Certificates and Awards
Associate in Science: Nursing (RN/ADN)
Associate in Science: Vocational Nursing (VN)
Certificate of Achievement: Vocational Nursing (LVN)
Skills Competency Award: Certified Nursing Assistant (CNA)
Skills Competency Award: Acute Care CNA
Skills Competency Award: Home Health Aide

Program Descriptions
The School of Nursing prepares students for Registered Nurse (RN) licensure, Vocational Nurse (VN) licensure and Certified Nursing Assistant (CNA) certification.

The Registered Nursing program is offered for qualified men and women to prepare for staff nurse positions in hospitals and similar health agencies. It is approved by the California State Board of Registered Nursing (BRN) and accredited by the Accreditation Commission for Education in Nursing. Graduation from Santa Barbara City College with an Associate Degree and a major in nursing qualifies graduates to take the state board examination for licensure as registered nurses.

The Vocational Nursing program is a three-semester program designed to prepare qualified men and women applicants to function as Licensed Vocational Nurses. LVNs provide skilled nursing care in various healthcare settings: hospitals, Skilled Nursing Facilities, home health agencies, school districts, jails, clinics, and physician’s offices. The vocational nurse works under the direction of a licensed registered nurse or a physician. The program is approved by the Board of Vocational Nursing and Psychiatric Technicians. Upon successful completion of the program, graduates receive the Santa Barbara City College Certificate of Achievement, and are eligible to apply to take the examination for licensure as registered nurses.

The Certified Nursing Assistant (CNA) and Home Health Aide (HHA) programs prepare men and women to give basic nursing care under the direction of a licensed nurse. The focus of this program is on care of the elderly, including both classroom and clinical experience. This program meets the requirements for the California Certified Nursing Assistant, and graduates are qualified to take the State Certification Exam.

In addition to the policies and standards of Santa Barbara City College, Health Technologies programs have policies and requirements based on the professional standards and guidelines of their individual regulating state and national accrediting boards. These additional policies and requirements are described in the handbook for each individual program.

Note: For information on other Health Technologies programs, refer to the Catalog sections on Allied Health, Health Information Technology and Cancer Management, Medical Coding Specialist, Medical Reimbursement Specialist and Radiographic/Imaging Science.

Department Offices
Division: Health/Human Services
Laura Hill, Director (A-218, ext. 3617)
Health Technologies Office (A-218, ext. 2366)
Lorraine Michalak, Secretary (A-218, ext. 2366)
Alan Price, Dean (A-218, ext. 3044)

Faculty and Offices
Cindy Bower (A-274, ext. 3563)
Michelle Gottwald (A-218, ext. 4761)
Linda Macias (A-241, ext. 3680)
David Martinez (A-279, ext. 2770)
Sarah Orr (A-239, ext. 3447)
Cathy Schermer (A-279, ext. 3678)
Sheri Shields (A-239, ext. 2373)
Katie Worsdale (A-272, ext. 2513)

Admission to the Programs
Candidates accepted into the ADN, VN and CNA programs must be admitted to Santa Barbara City College, as well as to the specific program. Applications to the ADN, VN and CNA programs must be submitted to the Health Technologies Office (A-218). Applications are available online at www.sbcc.edu/nursing. Applications to the college must be submitted to the Admissions Office. Refer to specific program application and admission requirements in the following pages of this Catalog or our website at www.sbcc.edu/nursing.
Registered Nursing Program Description

Graduation from Santa Barbara City College with an Associate Degree and a major in Nursing qualifies graduates to take the state board examination for licensure as a registered nurse. Nursing theory offered in campus classes is integrated with clinical nursing practice in local hospitals and health agencies. The SBCC ADN Program is approved by the California State Board of Registered Nursing (BRN) and accredited by the Accreditation Commission for Education in Nursing. For accreditation questions or comments, both agencies can be contacted at the following addresses:

Board of Registered Nursing (BRN)
P.O. Box 944210
Sacramento, CA 94244-2100
(916) 322-3350 • www.rn.ca.gov

Accreditation Commission for Education in Nursing, Inc.
3343 Peachtree Road NE, Suite 850
Atlanta, GA 30326
(404) 975-5000 • Fax: (404) 975-5020
www.acenursing.org

Mission Statement

The mission of the SBCC ADN Program is in accord with the Mission Statement and Core Principles of Santa Barbara City College. It supports the tenets of the American Nurses Association, the National League for Nursing, and the California Board of Registered Nursing. The primary aim of the program is to prepare entry-level registered nurses as providers of care across the health/illness continuum and as members of the profession. The program is responsive to the changing needs of the community, state and nation.

The curriculum provides a positive, innovative learning framework that fosters the development of critical thinking and problem solving skills so that graduate nurses are equipped to deliver care to a culturally diverse population in a variety of healthcare settings. Graduates will collaborate with other members of the healthcare team, be effective communicators, be politically aware, and demonstrate a commitment to lifelong learning.

ADN Philosophy

The faculty believes that teaching/learning is a continuous and interactive process, with students and faculty sharing joint responsibility. Faculty members provide information, resources, and guidance to facilitate learning; however, students must assume primary responsibility for their own learning. The faculty acknowledges that students are adults with prior knowledge and experiences and they differ in learning styles and needs; therefore, a variety of instructional strategies and support services are used to promote student achievement and success.

The faculty believes that nursing is an art and applied science based on a unique body of knowledge derived from the biological, physical, and behavioral sciences. As an art, nursing embodies learned therapeutic and caring behaviors and the creative use of skills and expertise essential to promote, maintain, and restore the person to an optimal level of health. As a science, nursing integrates concepts from the humanities and natural and behavioral sciences to develop a body of knowledge that supports the delivery of evidence-based care. It is recognized that nursing is a complex multifaceted profession directed towards promoting each client’s optimal level of health. This involves utilization of the nursing process, application of critical thinking and the transfer of theory into clinical practice. Nursing encompasses the roles of provider of care, manager of care, and member of the profession.

The SBCC ADN curriculum is based on the principles of Jean Watson’s theory, The Caring Science. Inherent in this curriculum model is a commitment to and a compassion for care of the whole person. Caring involves learning about and understanding human needs and human responses in varying states of health. It also involves understanding and valuing human individuality and diversity. By extending a human presence, nurses promote human dignity, reinforce self-esteem, enhance spirituality, nurture strengths, and facilitate healing. The Watson theory also recognizes that both the person cared for and the caregiver are affected by every interaction; therefore it is imperative that nurses take care of themselves in order to effectively care for others. Caring concepts are included in the program’s Conceptual Framework, Basic Standards for Safe Nursing Practice, and Educational Outcomes.

ADN Program Benchmarks

1. Ninety percent (90%) of graduating students responding to the Program Survey and Evaluation Form will report the SBCC ADN Program as satisfactory in all of the following areas: adequacy
of curriculum to meet community needs; quality of instruction; learning environment; learning resources; and college support systems.
2. Seventy-five percent (75%) of students entering will successfully complete the program.
3. Eighty-five percent (85%) of graduates will pass NCLEX-RN on the first attempt.
4. Seventy-five percent (75%) of responding graduates will be employed within 6 months of taking the NCLEX-RN exam, as measured by the Graduate Questionnaire.
5. Eighty percent (80%) of graduates responding to the Graduate Questionnaire will evaluate themselves as average or above average as Providers of Care, Managers of Care and Members of the Profession.
6. Employers responding on the Employer Evaluation of ADN Graduates form will rate 90% of SBCC graduates as adequate or better, overall.

Program Student Learning Outcomes (PSLO)
1. The student will demonstrate through clinical observation the establishment of a therapeutic environment and appropriate communication with patient, family members, and team members.
2. The student will employ evidence based practice by utilizing information technology to implement plan of care and document patient outcomes.
3. The student will verbalize and demonstrate elements of critical thinking by prioritizing patient care to maintain SBCC ADN Basic Standards of Practice.
4. The student will demonstrate integrity, accountability, and respect for diverse populations in both theory and clinical.

Terminal Objectives
The graduate nurse will demonstrate the following:
1. Assist Individuals to achieve optimal health utilizing the knowledge gained from biological, social, and The Watson’s Caring Science.
2. Formulate a comprehensive plan of care using all components of the nursing process.
3. Safely perform basic psychomotor skills in the delivery of care as a technically competent clinician.
4. Integrate the role of the professional nurse into clinical practice.
5. Utilize information technology to research and communicate to identify problems, initiate actions and evaluate outcomes for health promotion and maintenance.
6. Apply psychological, social, and cultural knowledge to the nursing role.
7. Support physiological well-being of individuals and families in the health care environment.
8. Assume the role of advocate to improve health care delivery by communicating and acting according to the expressed needs of the individual.
9. Manage the clinical environment through assessment, planning, intervention and evaluation.
10. Apply critical thinking skills to make judgments based on evidence (fact) rather than conjecture.
11. Organize individuals or groups toward goal-setting and goal achievement.
12. Implement a comprehensive teaching plan to help individuals and families achieve optimal health.
13. Take and pass the NCLEX-RN Examination.
14. Understand that the culmination of the ADN program prepares for entry into practice and that continuing education and lifelong learning is imperative.

Program Information
When accepted into the Nursing Program, each student will be assigned a Nursing Faculty Adviser. Progression through and completion of this program requires the attainment of a minimum grade of “C” in each required course in the ADN Program and any courses noted with (*) identified in ADN Department Requirements. Program logistics, as well as special rules and limitations related to the curriculum, are described in the ADN Program Handbook, available in the Campus Bookstore and online at www.sbcc.edu/nursing.
Weekend, day and evening clinical hours are required.
The Board of Registered Nursing states that students impaired by alcoholism, drug abuse, or emotional illness may be prevented from obtaining a California license to practice nursing. Any SBCC ADN student whose function is impaired by alcoholism or drug abuse may be withdrawn from the Nursing major.
The Board of Registered Nursing may deny licensure to a person who has been convicted of a crime.
Nursing students are required to complete a criminal background check prior to placement in clinical area.
If, at any time, the student’s conduct or physical or emotional health is such that s/he is a potential threat to the well-being of patients, the student will be withdrawn from the Nursing program.
Admission to the Program
Applications are available from the School of Nursing website, www.sbcc.edu/nursing. Candidates for acceptance into the ADN Program at Santa Barbara City College must be admitted to Santa Barbara City College, as well as to the ADN Program.

Applications are accepted during specified periods only. These application acceptance periods will be listed on the nursing website. When applicant has completed all program prerequisites, submit completed application to: SBCC Health Technologies Office, 721 Cliff Dr., Santa Barbara, CA 93109-2394. It is the applicant’s responsibility to follow up with the Health Technologies Office to ensure that all materials have been received: (805) 965-0581, ext. 2366. Submit official high school and college transcripts from all other colleges attended to: SBCC Admissions and Records, 721 Cliff Dr., Santa Barbara, CA 93109-2394. Incomplete applications will not be accepted. ALL of the following must be in for a student to apply:

1. ADN application sent to the Health Technologies Office
2. Official high school transcript or GED equivalent are required of all applicants, unless the student has an AA/AS or BA/BS from a regionally accredited US institution sent to SBCC Admissions & Records Office
3. Official transcripts from all colleges attended sent to the SBCC Admissions & Records Office. Failure to submit all college transcripts may disqualify an application. The following course must be completed with a “C” or better prior to submitting an application for admission:
   a. Math: Intermediate Algebra (SBCC MATH 104 or 107 or 111 or SBCC math Assessment result showing eligibility for a class higher than MATH 104 or 111)
   b. English (SBCC ENG 110 or 110H Composition and Reading)
   c. Anatomy with lab (SBCC BMS 107)
   d. Physiology with lab (SBCC BMS 108)
   e. Microbiology with lab (SBCC BMS 127 or 157)

Attendance at the Mandatory Program Orientation Meeting is by invitation only, the semester prior to entry. A satisfactory physical examination, using the SBCC form, with all immunizations up to date and a TB clearance are required prior to student’s first semester in the program. Students must clear a criminal background clearance prior to attending clinical in any hospital or healthcare agency.

Applicants must also be assessed with a Chancellor’s Office approved standardized assessment (Test of Essential Academic Skills) and must meet Chancellor’s Office approved standards. Applicants must meet the state-identified composite score on this assessment to enter the Nursing Program. Those applicants not meeting the approved standard will be offered a plan for remediation, which must be completed within a year before retesting. Meeting the approved standards is required for entrance into the ADN Program.

*NOTE: Starting in February 2016, the program will utilize a multicriteria application process. See website for more detail.

Attendance at an ADN Information Session is recommended prior to application. Sessions are held once a month in Health Technologies (A-218) during the Spring and Fall semesters, except holidays and summer. See the nursing website for dates and times.

Expenses
Approximate total cost of the ADN Program is $6,500. This covers the cost of tuition, uniforms, nursing shoes, watch with second hand, stethoscope, bandage scissors; required textbooks background check, physical exam, CPR certification, and transportation to and from clinical agencies and the college.

AS Degree: Nursing (ADN)
An Associate Degree will be awarded upon completion of both department and college requirements.

Department Requirements
+BMS 107 — Human Anatomy ........................................4
+BMS 108 — Human Physiology ....................................4
+BMS 127 — Medical Microbiology or .............................5
+BMS 157 — General Microbiology .................................4
+Note: A college Chemistry Class with a lab (CHEM 101 or 104 at SBCC) is a prerequisite to BMS 127 or 157.
+MATH 104 or 107 or 111 — Intermediate Algebra or
Intermediate Algebra for Math, Science and Business Majors or SBCC assessment showing eligibility for a class higher than MATH 104 or 107 or 111.................................................4/5/10
+COMM 121 — Interpersonal Communication or
+COMM 121H — Interpersonal Communication, Honors or
*+COMM 131 — Fund. Public Speaking or
*+COMM 131H — Fund. Public Speak, Honors...............3
+ENG 110 — English Comp Reading or
+ENG 110H — English Comp and Read, Honors............3
Humanities (See GE Requirement List) .........................3
+PSY 100 — General Psychology or
+PSY 100H — General Psychology, Honors.............3-4
**SOC 101 — Introduction to Sociology or**
**SOC 101H — Introduction to Sociology, Honors or**
**SOC 113 — Sociology of Sex Roles**

*For transfer to a BSN Program, the following advanced courses are recommended: COMM 131 or 131H and SOC 101 or 101H.*

*These courses must be completed with a “C” or better to graduate and to qualify to take the California State Board Exam for RN (N-CLEX).* Select two out of the following three:

- American Institutions Requirement (See GE Requirement List) ........................................ 3-6
- PE/Health Education (See GE Requirement List) ............ 2-4
- Multicultural/Gender Studies (See GE Requirement List)...3
- ENG 120 or LIB 101 ............................................................... 1

*Students who earned a Bachelor’s Degree from a regionally-accredited institution are exempt from these requirements.*

**Transfer Students**

Students previously enrolled in another state accredited registered nursing program within the past year and who were in good standing may transfer into the SBCC ADN Program on a space available basis. The application process entails meeting the SBCC ADN admission requirements and applying to both the college and the program. Entry is based on space available at the time of application.

**High School Articulation**

Interested high school students are encouraged to prepare for nursing by completing the four-year high school pre-nursing curriculum at the San Marcos High School Health Academy. High school counselors have the list of specific high school courses, which will prepare a student to enter nursing.

**LVN Advance Placement**

LVNs currently licensed in California are admitted into the ADN Program in one of two tracks: (1) LVN to RN or (2) 30-unit option. LVN students are entered one time per school year in the Fall Semester. LVN to RN applicants must meet the same application and program requirements.

**Diploma Nurses**

College credit toward a BSN for Diploma Nurses may be awarded; evaluation of a student’s transcript may allow 30 units of nursing credit for transfer to a BSN Program. Call the director of the ADN Program for more information, ext. 2368.

**Planning a Program of Study**

The sequence of the following courses and other required courses will be determined in conjunction with the student’s ADN faculty adviser. All courses are CSU-transferable, with the exception of NURS 195, 197 and 282.

**Semester 1**

- NURS 160 — Foundations of Nursing ................................. 4
- NURS 161 — Pharmacology Nursing .................................. 1.5
- NURS 162 — Medical-Surgical Nursing I .......................... 4

**Semester 2**

- NURS 163 — Medical Surgical II ...................................... 5.5
- NURS 165 — Mental Health Nursing ................................. 2.5
Semester 3  
+NURS 119 — Intro. to RN for the LVN (LVNs only) ........... 3  
NURS 164 — Nursing of Childbearing and Families .......... 2.5  
+NURS 166 — Medical-Surgical Nursing III ..................... 5  
NURS 167 — Nursing Care of Children and  
Families-Pediatrics or .............................................. 2.5  
+NURS 167VN — Nursing Care of Children and  
Families for the LVN (LVNs only) .................................. 1.5  

Semester 4  
+NURS 168 — Medical-Surgical Nursing IV ..................... 6.5  
+NURS 169 — Gerontology-Community Nursing ............... 2  
+ Indicates courses required of LVNs  

Optional Courses  
NURS 190 — Assessment of Clinical Competence  
NURS 194 — Review Update of Nursing Skills  
NURS 195 — Success Strategies for ADN Students  
NURS 198 — Diploma Nursing Credit  
NURS 282 — NCLEX Success  
NURS 290 — Work Experience in ADN  
*NURS 295 — Nursing Internship  
NURS 299 — Independent Study in Nursing  
*See Department Chair for information  

College Requirements  
For complete information, see “Graduation Requirements” in the Catalog Index.  

Program Cost and Outcome  
For planning purposes, the following webpage provides information on the cost of attendance, program length (assuming a student attends full time), financing options and historical student completion rates:  
www.sbcc.edu/financialaid/gainfulemployment/Nursing-Vocational%20Nursing.htm  

Nursing Courses  

NURS 119 — Introduction to RN for the LVN  
(3) — CSU  
Limitation on Enrollment: Admission to the ADN Program; LVN license  
Hours: 126 (18 lecture, 108 lab)  
Provides a basic orientation to the Santa Barbara City College Associate Degree Nursing Program for the VN to ADN student. Ethical and legal responsibilities and the changing role of the RN are included. LVN to RN content including IV therapy, assessment and care of the childbearing patient are examined.  

NURS 160 — Foundations of Nursing  
(4) — CSU  
Limitation on Enrollment: Admission to the ADN Program  
Hours: 144 (36 lecture, 108 lab)  
Application of the Watson Caring Model and the role of the nurse. Critical thinking and basic skills necessary to administer beginning-level assessment and interventions for adults across the lifespan. Clinical experiences provide opportunities for students to deliver nursing care that focuses on health maintenance and promotion in a variety of health settings.  

NURS 161 — Pharmacology Nursing  
(1.5) — CSU  
Hours: 27 lecture  
Provides a methodical approach for calculating medication dosages and administering drugs. Includes general principles of pharmacology, and legal, ethical and safety aspects of medication administration. Emphasis on nursing responsibilities, such as maximizing therapeutic effects and minimizing adverse effects of drug therapy, appropriate patient teaching and ongoing assessment of the patient.  

NURS 162 — Intro. to Medical-Surgical Nursing I  
(4) — CSU  
Limitation on Enrollment: Admission to the ADN Program.  
Hours: 144 (36 lecture, 108 lab)  
Introduction to concepts and practices relating to the nursing environment. Utilizing Watson’s Caring model and nursing process, the student begins to recognize alterations in functioning or illness and formulate age-appropriate nursing interventions to meet the needs of a diverse population.  

NURS 163 — Beginning Medical Surgical II  
(5.5) — CSU  
Limitation on Enrollment: Admission to the ADN Program  
Hours: 189 (54 lecture, 135 lab)  
Develops first-year nursing students’ knowledge as they relate to adult non-critical, moderately complex medical-surgical patients. Utilizing the nursing process and Watson’s Caring model, students recognize
alterations in status and formulate age-appropriate care. Psychomotor skills include medication administration, sterile procedures, isolation procedures and intravenous therapy.

NURS 164 — Nursing Care of Childbearing and Families
(2.5) — CSU

Limitation on Enrollment: Admission to the ADN Program
Hours: 99 (18 lecture, 81 lab)

Provides knowledge and skills to provide safe, effective, culturally-sensitive, physiological and psychosocial care, using Watson’s Caring Theory, the nursing process and family-centered approach for childbearing clients and families. Clinical experience emphasizes refinement of critical thinking, teaching/learning, decision-making, psychomotor skills and management of childbearing patients.

NURS 165 — Mental Health Nursing
(2.5) — CSU

Limitation on Enrollment: Admission to the ADN Program
Hours: 81 (27 lecture, 54 lab)

Introduction to mental health psychiatric nursing, using the nursing process, promoting psychosocial integrity within the health illness continuum across the life span. Emphasizes therapeutic interactions and communications, bio-psychosocial rehabilitation and therapeutic use of self. Various clinical settings provide students opportunity to participate in therapeutic activities.

NURS 165VN — Mental Health Nursing for the VN
(1) — CSU

Hours: 36 (9 lecture, 27 lab)

Application of Mental Health nursing, using the nursing process and Watson’s Caring Theory, to promote psychosocial integrity within the health illness continuum across the life span. Emphasis on therapeutic interactions and communication, biopsychosocial rehabilitation, and therapeutic use of self.

NURS 166 — Intermediate Medical-Surgical Nursing III
(5) — CSU

Limitation on Enrollment: Admission to the ADN Program.
Hours: 180 (45 lecture, 135 lab)

Application of the nursing process in the care of patients experiencing alterations in the respiratory, cardiac, gastrointestinal, musculoskeletal, immunological and hematological systems. Knowledge of the nursing role, communication, safety, pharmacology, growth and development, socio-cultural diversity and nutrition to promote, maintain and restore optimum wellness.

NURS 167 — Nursing Care of Children and Families - Pediatrics
(2.5) — CSU

Limitation on Enrollment: Admission to the ADN Program.
Hours: 99 (18 lecture, 81 lab)

Application of the Watson Caring Theory and the nursing process to the care of children, from birth to 18, who are experiencing alterations in their health states. Knowledge of the nursing role, communication, safety, pharmacology, growth and development, socio-cultural diversity and nutrition to promote optimum wellness.

NURS 167VN — Nursing Care of Children and Families for the LVN
(1.5) — CSU

Limitation on Enrollment: Admission to the ADN Program.
Hours: 45 (18 lecture, 27 lab)

Application of the Watson Caring model and the nursing process to the care of children, from birth to 18, who are experiencing alterations in their health states. Knowledge of the nursing role, communication, safety, pharmacology, growth and development, socio-cultural diversity and nutrition to promote and maintain optimum wellness.

NURS 168 — Advanced Medical-Surgical Nursing IV
(6.5) — CSU

Limitation on Enrollment: Admission to the ADN Program.
Hours: 261 (45 lecture, 216 lab)

Advanced application of Watson’s Caring model and nursing process in the care of critically ill adults and geriatric patients. Students organize and interpret data to establish priorities of care. Correlated clinical experiences emphasize refinement of clinical decision-making, psychomotor skills and management of patient care.

NURS 169 — Gerontology-Community Nursing
(2) — CSU

Limitation on Enrollment: Admission to the ADN Program.
Hours: 72 (18 lecture, 54 lab)

Applies the nursing process in the community, with a particular focus on the care of the older adult.
Concepts of community-based nursing practice, including the role of the nurse in the community, health promotion and disease prevention. “Healthy People 2020” to be emphasized.

**NURS 190 — Assessment of Clinical Competence (0.5-2.0) — CSU**
**Hours: 108 lab**
Designed to evaluate clinical nursing skills of students with previous nursing experience. It is also used for students whose clinical performance is marginal and require additional time and supervision to bring skills up to standards of practice.

**NURS 194 — Review and Update of Nursing Skills (0.5) — CSU**
**Hours: 27 lab**
Opportunity for the licensed nurse (RN and LVN) to review and practice nursing skills in the SBCC Nursing Laboratory. Orientation meetings are held monthly. See website for information.

**NURS 195 — Success Strategies for Associate Degree Nursing Students (0.5)**
*Limitation on Enrollment: Admittance to the Associate Degree Nursing Program*
**Hours: 9 lecture**
Associate Degree Nursing students work with their instructors, advisers developing strategies needed to successfully master competencies required. Although these success strategies are customized to individual needs of each student, some include strategies to reduce stress, improve performance in the clinical, classroom setting and set appropriate priorities.

**NURS 198 — Diploma Nursing Credit (30) — CSU**
*Limitation on Enrollment: Current RN license in California*
For RNs whose basic nursing preparation earned a nursing diploma, 30 units of college credit is awarded toward a BSN following evaluation of diploma program.

**NURS 282A — NCLEX Success for the First Semester ADN Student (1)**
**Hours: 18 lecture**
Associate Degree Nursing students, enrolled in Semester 1, work with instructor to develop specific strategies to assist them in preparation for the National Licensure Exam (NCLEX). Students are introduced to the academic and clinical expectations of the curriculum and ATI resources. Examines time management, effective study skills, stress management and test anxiety.

**NURS 282B — NCLEX Success for the Second Semester ADN Student (1)**
**Hours: 18 lecture**
Associate Degree Nursing students enrolled in Semester 2 work with the instructor to develop specific strategies to assist them in preparation for the National Council of Nursing Exam (NCLEX-RN). This course provides activities to improve the student’s overall test performance and examines the nursing process and clinical application on faculty-developed multiple choice exams.

**NURS 282C — NCLEX Success for the Third Semester ADN Student (1)**
**Hours: 18 lecture**
Associate Degree Nursing students, enrolled in Semester 3, will work with instructor to develop strategies to assist in the preparation for the National Council Licensing Exam (NCLEX). Examines exam analysis tools and corrective action strategies based on Pharmacology, Pediatrics and Maternal Newborn content mastery exams.

**NURS 282D — NCLEX Success for the Fourth Semester ADN Student (1)**
**Hours: 18 lecture**
Associate Degree Nursing Students, enrolled in Semester 4, work with instructor to develop specific strategies to assist in the preparation for the National Council Licensing Exam (NCLEX). The strategies are individualized for each student based on the RN Predictor Assessment results.

**NURS 290 — Work Experience in Associate Degree Nursing (1-4) — CSU**
*Corequisites: Any ADN course (NURS 101–171)*
**Hours: 60-300 lab**
Provides a Nursing student the opportunity to explore various career opportunities in the nursing field through employment or volunteering. One unit of credit is earned for each 75 hours of supervised on-the-job experience in the health care setting. Students must accomplish specific, previously approved course objectives. Class meetings on campus scheduled each semester.

**NURS 295 — Internship in Nursing**  
(2-4) — CSU  
*Limitation on Enrollment: Current enrollment in ADN Program and completion of NURS 101-127*  
*Skills Advisories: MATH 107 and Eligibility for ENG 110 or 110H*  
*Hours: 108-273 lab*

Structured internship program in which students gain experience in the hospital setting.

**NURS 299 — Independent Study in Nursing**  
(1) — CSU  
*Limitation on Enrollment: Six units of NURS courses with a 3.0 or higher GPA; minimum of 12 units of course work completed at SBCC with GPA of at least 2.5*  
*Skills Advisories: Eligibility for ENG 110 or 110H*  
*Hours: 48-192 lab*

Students work under the guidance and direction of sponsoring faculty member on project consistent with the interests and abilities of the student. Minimal weekly meetings with faculty sponsor are required. Course may be taken for one or more units of credit; each unit of credit requires student to devote approximately three hours per week to her/his project.

**Vocational Nursing (LVN)**

**Degree and Certificate**

Associate in Science: Vocational Nursing (LVN)  
Certificate of Achievement: Vocational Nursing (LVN)

**Program Description**

*The Certificate of Achievement*: Vocational Nursing (LVN) is a three-semester program designed to prepare qualified men and women applicants to function as Licensed Vocational Nurses (LVNs). LVNs provide skilled nursing care in various healthcare settings: hospitals, skilled nursing facilities, home health agencies, school districts, jails, clinics, and physician’s offices. The vocational nurse works under the direction of a licensed registered nurse or a physician. The program is accredited by the Board of Vocational Nursing and Psychiatric Technicians. Upon successful completion of the program, graduates receive the Santa Barbara City College Certificate of Achievement, and are eligible to apply to take the examination for licensure to practice as a licensed vocational nurse. Students may earn the Associate in Science: Vocational Nursing (LVN) by completing the Certificate of Achievement: Vocational Nursing (LVN), as well as college requirements which include at least 18 units of General Education coursework.

**Vocational Nursing**

1. Take and pass the licensure exam.  
2. Function within the scope of practice of LVN, as outlined by the California Board of Vocational Nurses.  
3. Practice within professional and legal standards, ethical principles and demonstrate sensitivity to the cultural differences of patients.  
4. Apply the nursing process by collaboratively assessing, planning, implementing and evaluating nursing care and teaching maintenance of health and prevention of disease.  
5. Apply principles of oral, written and verbal communication to convey relevant, accurate and complete information.  
6. Provide compassionate holistic nursing care by maintaining patients’ psychological safety and acting as a patient advocate.

**Program Information**

Brochures, information sheets and applications for the program may be obtained from the Health Technologies Office (Room A-218). Applications to the program are available on an ongoing basis. Contact the office for any change in the process.

Transcripts must be on file and all other requirements and qualifications met before any applicant will be considered for acceptance to the program. Any conflicting information should be clarified with the Health Technologies Office.

Candidates for acceptance into the LVN Program must be admitted to Santa Barbara City College, as well as to the program. Applications to the college must be submitted to the Admissions Office after acceptance into the program.

In addition to the policies and standards of Santa Barbara City College, the Health Technologies
programs have policies and requirements based on professional standards and guidelines of their regulating state and national accrediting boards. These additional policies and requirements are in the handbooks for the individual programs.

Any student who plans to request transfer into, recognition of credit, or apply for readmission into Health Technologies programs is required to meet with the Director of the LVN Program before beginning a course of study toward a degree or certificate. The policy and procedures will be explained at that time.

Theory and laboratory practice on campus is correlated with clinical experience in cooperating community hospitals and agencies. Students must provide their own transportation to all facilities.

If, at any time, the student’s conduct or physical or emotional health is such that he/she is a potential threat to the well-being of patients, the student will be withdrawn from the Nursing major.

**Department Offices**

*Division: Health/Human Services*

Health Technologies Office (A-218, ext. 2366)
Lorraine Michalak, *Application Secretary* (A-218, ext. 2366)
Ann Marie Kopeikin, *Co-Chair/Director*
(A-218, ext. 2233)
Rosette Strandberg, *Co-Chair/Assistant Director*
(A-237, ext. 2512)
Alan Price, *Dean* (A-218, ext. 3044)

**Faculty and Offices**

Ann Marie Kopeikin, *Co-Chair/Director*
(A-218, ext. 2233)
Rosette Strandberg, *Co-Chair/Assistant Director*
(A-237, ext. 2502)
Donna Terpening, *Assistant Professor*
(A-275, ext. 4385)

**Admission to the Program**

Applications are accepted on a year-round basis. Admission prerequisites are:

1. Proof of high school graduation, or be 18 years of age, with equivalency certificate. “Official” transcripts (in a sealed envelope) are required.
2. A minimum grade of “C” in COMM 121 or 121H (Interpersonal Communication), or COMM 131 or 131H (Fundamentals of Public Speaking) or equivalent.
3. Eligibility for MATH 95, and ENG 98 and 103, as verified by assessment through the Santa Barbara City College Assessment Office or evidence of comparable course work. (Obtain information sheet in Health Technologies, Room A-218, and/or the Assessment Office, Room SS-251. A minimum grade of “C” in BMS 100 (The Human Body) or BMS 107 (Human Anatomy) or BMS 109 (Human Anatomy and Physiology) or an equivalent course. Course must be taken within 5 years of entering the program.
4. CNA certification—current CNA license, or if expired, recent CNA experience (see prerequisite to VN 131 on next page).
5. Must be eligible for admission to Santa Barbara City College.
6. Once accepted, students must:
   - Complete the SBCC School of Nursing physical examination form, including providing proof of updated immunization within the past 19 months of program entry.
   - Complete MATH 103 with a “C” or successful assessment of MATH 103 competencies, or eligibility for MATH 107 or higher based on SBCC assessment score. MATH 103 is now part of the VN curriculum and must be taken before VN 131.
   - Complete VN 160/ESL 160 with a “C” or successful assessment of VN 160/ESL 160 competencies. VN 160/ESL 160 is now part of the VN curriculum and must be taken before VN 131.
   - Obtain a CPR card, which must be kept current throughout the program.
   - Attend program orientation meeting.
   - Pay program malpractice insurance fee.

**Special Note:** HE 201 and (CNA 101 or CNA 105 and CNA 106) are prerequisites to VN 131, which is required in the first semester of the program.

**Department Recommendations**

*These courses are not required but may aid in preparing a student for the program:*

Medical terminology: AH 120 or HIT 135 online PHIL 111 - Critical Thinking and Writing in Philosophy
Expenses
Students must purchase uniforms, watch with second hand, stethoscope, bandage, scissors, all VN syllabi and required textbooks. Approximate total cost is $4,000.00. Students are responsible for transportation to and from clinical agencies and the college. The following required one-time fees are paid at registration:

AS Degree: Vocational Nursing (LVN)
The Associate Degree will be awarded upon completion of department and college requirements.

Department Requirements (50.75 units)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>VN 160/ESL 160</td>
<td>Reading and Study Skills for Nursing</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Nursing and Allied Health Math</td>
<td>1</td>
</tr>
<tr>
<td>VN 131</td>
<td>Foundation for Nursing Practice</td>
<td>5</td>
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<tr>
<td>VN 132</td>
<td>Principles of Nutrition and Care of the Patient with Gastrointestinal Problems</td>
<td>3</td>
</tr>
<tr>
<td>VN 133</td>
<td>Foundation for Nursing Practice Lab</td>
<td>5.5</td>
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<tr>
<td>VN 134</td>
<td>Principles of Administration of Therapeutic Agents</td>
<td>2</td>
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<tr>
<td>VN 135</td>
<td>Understanding Pharmacology</td>
<td>2</td>
</tr>
<tr>
<td>VN 136</td>
<td>Genitourinary, Endocrine and Skin Problems</td>
<td>3.5</td>
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<tr>
<td>VN 137</td>
<td>Basic Medical-Surgical Nursing Lab</td>
<td>3.9</td>
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<tr>
<td>VN 138</td>
<td>Nursing Process Applied to the Childbearing Family</td>
<td>1.5</td>
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<td>VN 139</td>
<td>Nursing Process Applied to Care of Children</td>
<td>2</td>
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<td>VN 140</td>
<td>Maternal-Child Nursing Lab</td>
<td>2.6</td>
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<tr>
<td>VN 141</td>
<td>Cardiovascular and Respiratory Problems</td>
<td>2.6</td>
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<td>VN 142</td>
<td>Perception and Mobility Problems</td>
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<td>VN 143</td>
<td>Nursing Process Applied to Care of the Patient with Cancer</td>
<td>1</td>
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<tr>
<td>VN 144</td>
<td>Preparation for Vocational Nursing Practice</td>
<td>1.5</td>
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<tr>
<td>VN 145</td>
<td>Integrated Medical-Surgical Nursing Lab</td>
<td>5.75</td>
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</tbody>
</table>

Grades
Courses in the LVN Department requirements must be completed with a minimum grade of “C”, except for Pass/No Pass graded courses, which must be completed, with a “P” grade.

College Requirements
For complete information, see “Graduation Requirements” in the Catalog Index.

Advanced Standing
Any student who plans to request transfer into the program, receive recognition of prior credit, or apply for readmission into Health Technologies programs is required to meet with the Director/Coordinator of the LVN Program before beginning a course of study toward a degree.

Planning a Program of Study
Students should meet with the LVN Academic Adviser and an Academic Counselor from the Health Technologies cluster to plan an appropriate program of study.

Theory and laboratory practice on campus is correlated with clinical experience at various health care facilities in the Santa Barbara, Santa Maria, and Lompoc area. Students must provide their own transportation to all facilities. The three-semester, 50.75-unit curriculum consists of 15 short courses, which must be taken in designated sequence as follows:

Prior to First Semester
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>VN 160/ESL 160</td>
<td>Reading and Study Skills for Nursing</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Nursing and Allied Health Math</td>
<td>1</td>
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</table>

First Semester
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>VN 131</td>
<td>Foundation for Nursing Practice</td>
<td>5</td>
</tr>
<tr>
<td>VN 132</td>
<td>Principles of Nutrition and Care of the Patient with Gastrointestinal Problems</td>
<td>3</td>
</tr>
<tr>
<td>VN 133</td>
<td>Foundation for Nursing Practice Lab</td>
<td>5.5</td>
</tr>
<tr>
<td>VN 134</td>
<td>Principles of Administration of Therapeutic Agents</td>
<td>2</td>
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</tbody>
</table>

Total.................................................15.5

Second Semester
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>VN 135</td>
<td>Understanding Pharmacology</td>
<td>2</td>
</tr>
<tr>
<td>VN 136</td>
<td>Genitourinary, Endocrine and Skin Problems</td>
<td>3.5</td>
</tr>
<tr>
<td>VN 137</td>
<td>Basic Medical-Surgical Nursing Lab</td>
<td>3.9</td>
</tr>
<tr>
<td>VN 138</td>
<td>Nursing Process Applied to Childbearing Family</td>
<td>1.5</td>
</tr>
<tr>
<td>VN 139</td>
<td>Nursing Process Applied to Care of Children</td>
<td>2</td>
</tr>
<tr>
<td>VN 140</td>
<td>Maternal and Child Nursing Lab</td>
<td>2.6</td>
</tr>
</tbody>
</table>

Total.................................................15.5
### Third Semester

VN 141 — Cardio and Respiratory Problems ..........................3.5  
VN 142 — Mobility Problems ..................................................4  
VN 143 — Nursing Process Applied to Care of the  
Patient with Cancer ..........................................................1  
VN 144 — Preparation for Vocational Nursing Practice .........1.5  
VN 145 — Integrated Medical-Surgical Nursing Lab..............5.75  
Total .................................................................................15.75

### Certificate of Achievement: Vocational Nursing (LVN)

**Prior to First Semester**

VN 160/ENG 160 — Reading and Study Skills for Nursing ..3  
MATH 103 — Nursing and Allied Health Math .................1

**First Semester**

VN 131 — Foundation for Nursing Practice ......................5  
VN 132 — Principles of Nutrition and Care of the  
Patient with Gastrointestinal Problems ..........................3  
VN 133 — Foundation for Nursing Practice Lab .................3.9  
VN 134 — Principles of Administration of  
Therapeutic Agents ..........................................................2

**Second Semester**

VN 135 — Understanding Pharmacology ..........................2  
VN 136 — Genitourinary, Endocrine and Skin Problems ..3.5  
VN 137 — Basic Medical-Surgical Nursing Lab ..................3.9  
VN 138 — Nursing Process Applied to  
Childbearing Family .........................................................1.5  
VN 139 — Nursing Process Applied to Care of Children . ..2  
VN 140 — Maternal and Child Nursing Lab .......................2.6  
Total .................................................................................15.5

**Third Semester**

VN 141 — Cardio and Respiratory Problems ..........................3.5  
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Patient with Cancer ..........................................................1  
VN 144 — Preparation for Vocational Nursing Practice .........1.5  
VN 145 — Integrated Medical-Surgical Nursing Lab..............5.75

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### Vocational Nursing Courses

**VN 130 — Assessment of Clinical Competence for Vocational Nursing (1.5)**  
*Prerequisites: VN 131, 133*  
*Hours: 27-108 lab*

A clinical laboratory course.

**VN 131 — Foundation for Nursing Practice (5)**  
*Prerequisites: CNA 101 and/or HE 201, CNA 105*  
*Hours: 90 lecture*

Fundamental principles of nursing and concepts related to care. Nursing process presented as problem-solving method that provides a framework for delivery of health care.

**VN 132 — Principles of Nutrition and Care of Patient with Gastrointestinal Problems (3)**  
*Corequisites: VN 133*  
*Hours: 54 lecture*

The principles of nutrition and the relationship of nutrition to health. Focuses on the individual's nursing care needs in areas of functional, physiological, social and psychological integrity and environmental influences, as they relate to the gastrointestinal system. The application of theoretical concepts to patient care.

**VN 133 — Foundation for Nursing Practice Lab (5.5)**  
*Corequisites: VN 131*  
*Limitation on Enrollment: Must pass physical examination*  
*Hours: 297 lab*

Introductory laboratory and clinical course on basic fundamentals of nursing practice applied to adult and elderly patients requiring medical-surgical nursing care. The nursing process is the problem-solving method utilized for care planning and implementation in the clinical setting.

**VN 134 — Principles of Administration of Therapeutic Agents (2)**  
*Corequisites: VN 131 and 133*  
*Hours: 36 lecture*

Introduction to medication administration. Basic techniques and computations used in the administration of medications, including nursing considerations.
that pertain to the safe administration of medication. Completion of this course prepares the Vocational Nursing student to safely administer medications to patients, under the supervision of the nursing instructor.

VN 135 — Understanding Pharmacology
(2)
Corequisites: VN 137
Hours: 36 lecture

Study of the drugs most frequently prescribed for the hospitalized patient, with emphasis on nursing considerations that pertain to the administration of these drugs.

VN 136 — The Nursing Process Applied to Care of Patients with Genitourinary, Integumentary and Endocrine Disorders
(3.5)
Prerequisites: VN 133
Corequisites: VN 137
Hours: 63 lecture

Focuses on the individual’s nursing care needs in areas of functional, physiological, social and psychological integrity and environmental influences, as they relate to the genitourinary, endocrine and integumentary systems. The nursing process is utilized to apply theoretical concepts to patient care.

VN 137 — Basic Medical-Surgical Nursing Lab
(3.9)
Prerequisites: VN 133 and 134
Corequisites: VN 135 and 136
Limitation on Enrollment: Must be enrolled in Vocational Nursing Program
Hours: 211 lab

Clinical laboratory course builds on the basics of the first semester as students perform more advanced skills, while providing nursing care to adult and elderly patients in a variety of health care facilities.

VN 138 — Nursing Process Applied to Childbearing Family
(1.5)
Prerequisites: VN 133
Corequisites: VN 140
Hours: 27 lecture

Maternal, newborn and family nursing care needs in areas of functional, physiological, social and psychological integrity and environmental influences, as they relate to human reproduction. The nursing process is utilized to apply theoretical concepts to patient care.

VN 139 — Nursing Process Applied to Care of Children
(2)
Prerequisites: VN 133
Corequisites: VN 140
Hours: 36 lecture

Normal growth and development patterns of the growing child and family in health and illness; and nursing needs in areas of functional, physiological, social and psychological integrity and environmental influences. The nursing process is utilized to apply theoretical concepts to patient care.

VN 140 — Maternal and Child Nursing Lab
(2.6)
Prerequisites: VN 133 and 134
Corequisites: VN 138 and 139
Hours: 141 lab

Provides an opportunity for students to apply theory concepts related to the childbearing family and the growing child to clinical laboratory experiences. The nursing process is the problem-solving method utilized for care planning and implementation in the clinical setting.

VN 141 — Cardiovascular and Respiratory Problems
(3.5)
Prerequisites: VN 137
Corequisites: VN 145
Hours: 63 lecture

Focuses on the individual’s nursing care needs in areas of functional, physiological, social and psychological integrity and environmental influences, as they relate to the cardiovascular and respiratory systems. The nursing process is utilized to apply theoretical concepts to patient care.

VN 142 — Perception and Mobility Problems
(4)
Prerequisites: VN 137
Corequisites: VN 145
Hours: 72 lecture

Focuses on the individual’s nursing care needs in areas of functional, physiological, social and psychological integrity, as well as environmental influences as they relate to perception, coordination and mobility. The
nursing process is utilized to apply theoretical concepts to patient care.

**VN 143 — Nursing Process Applied to Care of Patient with Cancer**  
(1)  
*Prerequisites: VN 137  
Corequisites: VN 145  
Hours: 18 lecture*  
Nursing needs of the patient with cancer in areas of functional, physiological, social and psychological integrity and environmental influences. The nursing process is utilized to apply theoretical concepts relating to current modalities of cancer therapy to patient care.

**VN 144 — Preparation for Vocational Nursing Practice**  
(1.5)  
*Prerequisites: VN 137  
Corequisites: VN 145  
Hours: 30 lecture*  
Introduction to the principles of leadership and supervision as they apply to the vocational nurse. Focuses on the role of the vocational nurse as a member of the health-care team and supervisor of other vocational nurses and unlicensed health care givers.

**VN 145 — Integrated Medical-Surgical Nursing Lab**  
(5.75)  
*Prerequisites: VN 137  
Corequisites: VN 141 and 142 and 144  
Hours: 310.5 lab*  
Clinical laboratory course builds on experiences of the second semester as students develop leadership skills and provide nursing care to adult and elderly patients in a variety of settings. The nursing process is the problem-solving method utilized for care planning, implementation and leadership activities in the clinical setting.

**VN 146 — Introduction to Mental Health Nursing**  
(1)  
*Limitation on Enrollment: Admission to Program  
Hours: 18 lecture*  
Designed to foster understanding and critical thinking in relation to legal, ethical, and professional aspects of psychiatric-mental health care. Nursing approaches to the assessment and collaborative management of people with mental health disorders are outlined. Introduction to evidence-based psychological and psychosocial interventions used in the management of mental illness.

**VN 150 — Principles and Techniques of Intravenous Therapy**  
(1.5)  
*Offered every third semester.  
Hours: 30 (24 lecture, 6 lab)*  
LVN participants receive state-recognized certificates in IV Therapy. Includes rationale and legal aspects for intravenous therapy; relevant anatomy and physiology; principles and techniques for intravenous, blood or blood component infusions; and the care and monitoring of the patient undergoing intravenous therapy.

**VN 160/ESL 160 — Literacy Strategies for Nursing**  
(3)  
*Hours: 54 lecture*  
Designed to assist nursing students further develop reading, communication and study strategies that will be needed in the Licensed Vocational Nursing (LVN) program. Intended as a bridge between the CNA and LVN programs, the course focuses on the academic skills needed by pre-nursing students.

**MATH 103 — Nursing and Allied Health Math**  
(1)  
*Prerequisites: MATH 4 with a minimum grade of “C” or better or qualifying score on SBCC placement exam  
Hours: 18 lecture*  
Designed for Nursing and Allied Health professionals, focuses on math skills necessary to be successful in an Allied Health occupational area. After reviewing basic math skills and algebra, students learn metric system conversions, conversion among and between the metric, apothecary and household units of measure, and computational methods used in the preparation of medications.

### Certified Nursing Assistant (CNA)/Home Health Aide (HHA)

#### Program Awards

- **Skills Competency Award:**  
  - Certified Nursing Assistant (CNA)  
  - Acute Care CNA  
- **Skills Competency Award:** Home Health Aide (HHA)
Program Description
The Dorothy D. Rupe CNA/HHA Program prepares men and women to give basic nursing care. The focus of this program is on care of the elderly, including both classroom and clinical experiences. This program meets the requirements for the California Certified Nursing Assistant. Upon successful completion of CNA 101, the student is qualified to take the California State Certification Exam.

In addition to the policies and standards of Santa Barbara City College, the Health Technologies programs have policies and requirements based on professional standards and guidelines of their individual regulating state and national accrediting boards. These additional policies and requirements are in the handbooks for the individual programs.

Department Offices
Division: Health/Human Services
Health Technologies Office (A-218, ext. 2366)
Lorraine Michalak, Application Secretary
(A-218, ext. 2366)
Michelle Lehne, Director (A-276, ext. 5138)
Alan Price, Dean (A-218, ext. 3044)

Faculty and Offices
Michelle Lehne, Instructor/Director (A-276, ext. 5138)

Admission to the Program
Application Procedures (consult CNA website: sbcc.edu/nursing/cna for current information)
1. Submit a CNA/HHA application to the Health Technologies Office. Applications are available from the Health Technologies Office, A-218. All forms can be found on the website.
2. (Optional) Information meetings are held to assist with the application process. These open information meetings will be held at 4 p.m. in room A-214 the first Thursday of each month during the academic year. Contact the Health Technologies Office (A-218), (805) 965-0581, ext. 2366, or consult the website for additional information.
3. File an SBCC general application with the Admissions and Records Office.
4. Submit verification of eligibility for ENG 70 and 80 to the Health Technologies Office. Eligibility is shown by submission of SBCC Assessment results or submission of SBCC or other college transcripts showing completion of the required English courses.
5. The prerequisite for the HHA course is satisfactory completion of the CNA course, and/or previous certification as a CNA.

If there are more applicants than can be accepted, admission will be based on earliest date of completion and submission of application and required materials. Applicants who do not get into the class will need to reapply.

Acceptance Procedures
After acceptance and before enrolling in the CNA/HHA Program students are required to:
1. Submit the required physical examination (on the SBCC form) with all up to date immunizations to the Health Technologies Office.
2. Submit current CPR card for Health Care Provider or Professional Rescuer certification.
3. Provide Social Security card, a requirement of the California Department of Social Services. A copy will be made by a Health Technologies Department staff member.

NOTICE: Nurse Assistants and Home Health Aides may NOT be certified by the State of California if convicted of a Penal Code violation. Additional information will be given at the scheduled information meeting. Fingerprinting is required. Fingerprinting will be done during the first week of class and will be paid for by a donor.

Expenses
Currently, required SBCC fees, fingerprinting fees, textbooks, uniform and California State Certification Exam fees are being paid through the generous gift of a donor. Tuition for out-of-state and international students is not covered.

Skills Competency Award: CNA
Department Requirements
CNA 101 — Certified Nursing Assistant ....................... 6

Grades
Each required department course must be completed with a grade of “C” or higher. Pass/No Pass grading is not permitted in a department requirement course.
Skills Competency Award: Acute Care CNA

Department Requirements
CNA 103 — Acute Care Skills for the CNA ............ 1.5
Successful completion of CNA requirements and current CNA certification required.
Students must complete the above courses with a grade of “C” or higher or credit in all courses.

Skills Competency Award: Home Health Aide

Department Requirements
CNA 102 — Home Health Aide ................................ 1.8
Successful completion of CNA requirements and current CNA certification required.
Students must complete the above courses with a grade of “C” or higher or credit in all courses.

Certified Nursing Assistant Courses

CNA 101 — Certified Nursing Assistant (6)
Skills Advisories: Eligibility for ENG 70 and 80
Limitation on Enrollment: Must pass physical exam and have current CPR card specifying “For Health Care Provider,” current immunizations and a copy of Social Security card.
Hours: 191 (64 lecture, 127 lab)
Content follows the California State-approved CNA curriculum which teaches basic care-giving skills focusing on the elderly. Upon completion, student meets requirements to take the CA CNA test that grants CNA certification. Students must apply through the Health Technologies office.

CNA 102 — Home Health Aide (1.8)
Corequisites: Prior or concurrent enrollment in CNA 101
Limitation on Enrollment: Up-to-date physical exam, immunizations, and CPR card specifying “For Health Care Provider” and a Social Security card.
Skills Advisories: Eligibility for ENG 70 and 80
Hours: 51 (26 lecture, 25 lab)
Content builds upon the basics taught in the CNA course, focusing on care of the client in the home. On completion, student receives a CA Home Health Aide license (HHA).

CNA 103 — Acute-Care Skills for the CNA (1.5)
Corequisites: Prior or concurrent enrollment in CNA 101
Limitation on Enrollment: Must pass physical exam and hold current CPR card specifying “For Health Care Provider” and a Social Security card.
Hours: 45.5 (18 lecture, 27.5 lab)
The long-term care skills of the CNA are expanded to include basic nursing skills used in an acute-hospital setting. Classroom lecture and supervised experience in an acute-care hospital included.

CNA 105 — The Art of Caring for the Person with Dementia-Memory Care Basics (4.5)
Corequisites: Concurrent enrollment in CNA 106
Limitation on Enrollment: All students entering this course will need a physical exam, current TB test and must pass a criminal background check per agency policies.
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 153 (45 lecture, 108 lab)
Dedicated to improving the quality of life of the person with dementia, while enhancing the life of the caregiver. Focusing on providing a partnership between the caregiver and the memory-impaired adult, this course offers a distinctive approach that allows the student to practice newly-acquired knowledge in selected clinical sites.

CNA 106 — Compassionate Communication for Caregivers: The Art of Connecting in a Caregiving Relationship (1)
Corequisites: Concurrent enrollment in CNA 105
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 18 lecture
Designed to build on the ability to convey compassion, allowing persons with dementia or others who receive care, including family members, to experience compassion. The caregiver grows wiser, stronger and more capable in the process. Strategies for preventing caregiver “burn-out” are offered, along with insights into nourishing the soul of the caregiver.
Personal Development

Program Description
Santa Barbara City College offers courses that provide opportunities for students to increase their potential for success, develop leadership competencies and management skills, and evaluate and plan their educational programs.

The college faculty believes strongly that students should take time early in their educational endeavors to develop a plan, seek information, and prepare themselves for a comprehensive program that is best suited to their interests, abilities and goals.

Personal Development courses at SBCC, as well as a diverse array of support services, allow the student to develop and organize his or her program of courses, co-curricular activities and use of support services to achieve desired career training, educational goals, life management skills and leadership skills.

Educational planning and academic skills development opportunities through Student Success, Educational Planning and College Search courses should be an essential part of every student's college curriculum, while specialized courses provide unique opportunities for leadership development.

All students, particularly those who are undecided or looking for possible new career directions, are urged to take advantage of Career Planning courses, services and professional guidance provided by the faculty and staff of the Career Advancement Center. Career planning courses and services also provide an opportunity to explore, choose and enter careers and professions.

Information/Offices
Academic Counseling Center (SS-120, ext. 2285)
Career Center (SS-282, ext. 2331)
EOPS (SS-240, ext. 2279)
ESL (ESL-2, ext. 2320)
International Students (IE, ext. 2240)
Office of Student Support Services (SS-260, ext. 2202)
Student Activities (CC-217, ext. 2262)
Student Success (SS-260, ext. 2202)
Transfer Center (SS-140, ext. 2547)

Personal Development Courses
PD 004 — Personal Awareness Group
(1)
Hours: 18 lecture
Concepts of emotional health and effective interpersonal behavior. Lecture and group discussion will guide students on how to effectively deal with life situations and improve student success.

PD 020B — Strategies for Student Success
(1)
Hours: 18 lecture
Focuses on specific strategies for achieving academic and personal success. Students come to understand motivation and learn how to identify and overcome self-defeating behaviors.

PD 025 — Orientation to EOPS/CARE
(1)
Hours: 18 lecture
Limitation on Enrollment: Eligibility for EOPS/CARE Program required.
EOPS/CARE Orientation to acquaint students with campus, college procedures and policies, as well as programs. Graded Pass/No Pass.

PD 100 — College Success
(3) — CSU, UC*
Hours: 54 lecture
Students clarify their educational objectives and develop the skills necessary to reach them. Topics include time management, reading and study skills, goal-setting, career planning and communication skills. (UC Transfer Limit: PD 100 and 110 combined: maximum credit, one course)

PD 101A — Orientation to College for Re-entry Adults
(1)
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 18 lecture
Introduction to the campus and its resources for adults returning to school. Topics include study skills, time management and coping with the transition to being a student again. Graded Pass/No Pass.
PD 101B — Orientation to College for International Students
(0.5) — CSU
Skills Advisories: Eligibility for ESL Level 5
Hours: 9 lecture
Provides an overview of the American higher education system, as well as an orientation to college and its student support services. Students learn about cultural patterns, adjustment issues and U.S. classroom culture, as well as about college resources that are available to provide ongoing academic support.

PD 102A — Orientation to College for ESL
(1)
Hours: 18 lecture
Introduction to the campus and its resources for first-time to college ESL students. Topics include study skills, time management, coping with the transition to being a student in the United States, and an introduction to SBCC educational programs offered.

PD 102B — Success Strategies for ESL Students
(2)
Course Advisories: ESL 122 and 123 and 124
Hours: 36 lecture
Designed to empower transitioning ESL students to achieve academic and personal success. Includes strategies and success factors for ESL students transitioning to SBCC academic programs.

PD 103 — Career Planning
(1) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 18 lecture
Students assess interests, values, skills and personality traits, and learn skills to link up careers and college majors. Topics include career assessment, decision-making, researching careers and majors.

PD 104 — Choosing a College Major
(1)
Skills Advisories: ESL Level 4 or 5 or ENG 70 or 80
Hours: 18 lecture
Learn about yourself and SBCC majors and programs of study to make an informed choice of major that can further your educational and career goals. Students assess their individual strengths, interests, skills, abilities, personality preferences, lifestyle expectations, values, career options and educational goals and match these to SBCC’s majors, curriculum and programs of study. Students develop a personalized Certificate or Associate Degree planning portfolio.

PD 107 — Success Strategies for the Single Parent Student
(3) — CSU
Hours: 54 lecture
Designed to empower students to achieve academic and personal success. Strategies and success factors for single parent students. Addresses the need for developing good study habits, time management skills and support systems. Students learn to identify and understand self-esteem and self-defeating behavior; develop strategies for change; and emphasize attitudes beneficial to achieving optimum academic performance.

PD 110 — Career Planning and Decision-Making
(3) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 lecture
Comprehensive approach to career planning. Exploration of interests, personality traits and values through career assessment inventories. Topics include choosing a major, educational planning, value clarification, skills analysis, decision-making and goal-setting. Job search skills include researching occupational information, on-site interviews, interviewing and resume writing. (*UC Transfer Limit: PD 100 and 110 combined: maximum credit, one course)

PD 115 — Effective Time Management
(1) — CSU
Skills Advisories: ENG 70 and 80
Hours: 18 lecture
Students develop the skills necessary to effectively manage their time, develop and set realistic goals, and improve their ability to overcome issues that cause procrastination.

PD 120 — Peer Education /Lifestyle Choices
(1) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 18 lecture
Development of peer education skills around healthy lifestyle choices, with emphasis on the effects of alcohol and other drugs, HIV prevention, sexual health,
relationships, self-esteem and stress management. Designed to enable students to participate in formal or informal campus, community or personal peer education and prevention programs. National Bacchus and Gamma Peer Education Certificate optional.

**PD 131 — Stress Management and Wellness (3) — CSU**
*Skills Advisories: Eligibility for ENG 110 or 110H*
*Hours: 54 lecture*

Effective coping strategies to promote self-awareness, personal wellness and academic success and modeling these strategies for others. Explores symptoms of stress and other psychological conditions, including depression and anxiety. Examines the social, psychological, physiological and environmental factors that contribute to negative stress and the patterns of behavior that may result.

**PD 133 — Focus and Attention for Student Success (1)***
*Hours: 18 lecture*

Concentration is critical in this digital age of multi-tasking. Stabilizing the mind and retraining it to focus attention and be aware of awareness can lead students towards clearer thinking, enhanced learning, satisfaction, creativity, more sustained balance and mastery.

**PD 140 — College Success for Student Athletes (1) — CSU**
*Hours: 18 lecture*

Mandatory course for all student-athletes participating in intercollegiate sports for the first time at SBCC. Students learn critical information on athletic eligibility and NCAA transfer requirements, and develop a long-term educational plan. Includes skills necessary for college success: time management, study skills and test-taking strategies.

**PD 145 — College Success in Health Occupations (3) — CSU**
*Skills Advisories: ENG 70 and 80*
*Hours: 54 lecture*

Students clarify their educational objectives and develop the skills necessary to attain them. Topics include time management, reading and study skills, goal-setting, health occupations career planning and communication skills.

**PD 149A — Academic Planning (0.5) — CSU**
*Skills Advisories: Eligibility for ESL 122 and 123 and 124 or 132 and 124*
*Hours: 9 lecture*

Introduction to academic planning, leading to the completion of a comprehensive Student Education Plan (SEP). Students learn to incorporate the major design elements of an SEP by utilizing resources and educational planning software to identify educational requirements and appropriately balance a course schedule.

**PD 149B — Academic Planning for F-1 Visa Students (0.5) — CSU**
*Skills Advisories: Eligibility for ESL Level 5*
*Hours: 9 lecture*

Introduction to educational planning which leads to the completion of a long-term Student Education Plan (SEP). F-1 visa students learn to incorporate the major design elements of an SEP by utilizing resources that identify educational requirements and appropriately balance a course schedule.

**PD 149C — Academic Planning for STEM Students (0.5) — CSU**
*Hours: 9 lecture*

Introduction to educational planning which leads to the completion of a comprehensive Student Education Plan (SEP). STEM students learn to incorporate major design elements of an SEP by utilizing resources that identify educational requirements and appropriately balance a course schedule.

**PD 191A-Z — Topics in Personal Development (0.5-1)**
*Hours: 9-18 lecture*

Counseling services seminars on selected topics. Designed to provide students with structured group experience to assist them in the development of specific interpersonal or academic competencies. *Graded Pass/No Pass.*
PD 191A — Career Planning: A Self-Directed Approach
(1) — CSU
*Skills Advisories: Eligibility for ENG 98 and 103*
*Hours: 18 lecture*

Self-paced, individualized career planning course to include career assessment and testing, career counseling and independent career research. Students prepare a personal portfolio that includes short-term and future educational career plans and goals; and activities designed to achieve these goals. Course available through Internet assignments or through independent research conducted at the Career Center, with some class meetings required.

PD 191B — Math Success Seminar
(1)
*Skills Advisories: Eligibility for ENG 98 and 103*
*Hours: 18 lecture*

Individualized course to help students find better patterns for success in mathematics.

PD 191D — Orientation to College
(0.5)
*Hours: 9 lecture*

Designed to help new/first-time students understand the role of college, and to develop skills that promote academic persistence and personal adjustment.
Philosophy

Degrees
Associate in Arts Degree: Philosophy
Associate in Arts Degree (AA-T):
Philosophy for Transfer

Program Description
The study of philosophy develops and refines a rigorous, analytic understanding of certain of our fundamental concepts, e.g., knowledge, reason, truth and value. Since all other disciplines in academia rely on the use of such concepts, the study of philosophy is essential for an education directed toward completeness.

The study of philosophy also yields other tangible academic benefits. It has been shown that philosophy students scored at least five percentage points above average in admission tests for professional and graduate schools in America. No other subject matches philosophy in this respect. Philosophy students do better in examinations for business and management school than anyone except mathematicians.

With employment opportunities beyond academia apparently growing, e.g., consultants to hospitals, state legislatures, Congress, genetic engineering firms and artificial intelligence companies, there has also been a proliferation of philosophical journals focused on such topics as the allocation of scarce medical resources, abortion, euthanasia, disposal of nuclear waste, corporate responsibility and fair profit, etc.

The Philosophy Department additionally provides an Introduction to Philosophy course which surveys most of the standard fields of philosophy—logic, epistemology, metaphysics, ethics, aesthetics, the philosophy of religion and political philosophy.

The other courses offered (Ethics, Logic, Comparative World Religions, History of Philosophy: Ancient, Modern and Contemporary, Issues in Philosophy) are more specific and detailed accounts of these standard fields.

These philosophy courses may be transferred to four-year institutions. (Check for specifics with your counselor)

The department offers an AA-T Degree in Philosophy for Transfer. This degree provides the foundational knowledge in philosophy to students who want to earn a Baccalaureate Degree in Philosophy. This degree is in compliance with the Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code Sections 66746-66749) and guarantees admission to a California State University (CSU) campus for any community college student who completes an “associate degree for transfer,” a newly established variation of the associate degrees traditionally offered at a California community college. Upon completion of the transfer associate degree, the student is eligible for transfer with junior standing into the California State University (CSU) system. Students will be given priority consideration when applying to a particular program that is similar to the student’s community college area of emphasis. For more information on transfer degrees, visit www.sb1440.org.

Program Student Learning Outcomes
1. Demonstrate knowledge of the historically significant questions, problems and theories in the major areas of philosophy (epistemology, metaphysics, value theory, logic), including the views and arguments of the major representative philosophers who have addressed these issues.
2. Demonstrate knowledge of the basic rules and principles of logic, including the skill and knowledge of identifying, analyzing and evaluating arguments.
3. Demonstrate knowledge of the questions, problems, issues and theories that characterize the major historical periods of Western philosophy (Ancient, Medieval, Modern and Contemporary), as well as the views of the some major philosophers within these periods.
4. Demonstrate knowledge of the complexity of the human condition, including knowledge of the significance of feelings, emotions and cultural/historical influences on philosophical thinking and methodology.
5. Demonstrate critical thinking skills, virtues and attitudes in the exploration of issues; these include intellectual humility, empathy, fairness, open-mindedness and respect for the intellectual standards of clarity, accuracy, precision, relevance, scope, depth and coherence.
6. Demonstrate proficiency in philosophical writing, which includes presenting a philosophical thesis, supporting that thesis with arguments, and articulating and responding to counter-arguments.
Department Office
Philosophy Department (IDC-354, ext. 2476)

Faculty and Offices
Marc Bobro, Chair (IDC-356, ext. 4710, bobro@sbcc.edu)
Joseph P. White (IDC-354, ext. 2476, white@sbcc.edu)

AA Degree: Philosophy
Department Requirements (18-20 units)
Philosophy majors at Santa Barbara City College are required to take a minimum of eighteen (18) Philosophy units. Those students considering a major in Philosophy should consult with a Philosophy Department faculty member to plan a departmental course of study that will most benefit them.

PHIL 100 — Introduction to Philosophy ................................ 3
PHIL 100H — Introduction to Philosophy, Honors .................. 4
PHIL 101 — Introduction to Ethics or ................................. 3
PHIL 101H — Introduction to Ethics, Honors ........................ 4
PHIL 111 — Critical Thinking and Writing in Philosophy ...... 3
PHIL 205 — Introduction to Logic ...................................... 3

PLUS two courses selected from the following:
PHIL 200 — History of Philosophy: Ancient ......................... 3
PHIL 201 — History of Philosophy: Modern .......................... 3
PHIL 203 — History of Philosophy: Contemporary ............... 3

College Requirements
For complete information, see “Graduation Requirements” in the Catalog Index.

Planning a Program of Study
The required Philosophy courses for majors may be taken in any order, but it is recommended that Introduction to Philosophy be taken as a prelude to the other courses.

Preparation for Transfer
Course requirements for transfer vary depending upon the college or university a student wishes to attend. Therefore, it is most important for a student to consult with his/her counselor and departmental adviser before planning an academic program for transfer. Information sheets for majors, outlining transfer requirements, are available in the Counseling Center and Transfer Center.

Requirements for AA-T Degree—
Philosophy for Transfer
Philosophy covers a wide range of topics. The major is designed to give students exposure to basic information in the discipline and provide the opportunity to focus on the areas that best suit their individual needs. Students should consult with a departmental adviser and/or counselor when choosing both controlled and general electives in order to develop a program of study that is best suited to their specific needs. For example, requirements for the Baccalaureate Degree in Philosophy vary from one institution to another. It is, therefore, essential to become familiar with the requirements of the institution a student plans to attend.

The Associate in Arts Degree in Philosophy for Transfer will provide the foundational knowledge to students who want to earn a Baccalaureate Degree in Philosophy at any of the CSU campuses.

Degree Requirements
Complete 60 CSU-transferable units including General Education, major requirements and CSU-transferable electives as follows:

I. General Education
Complete one of the following patterns:
- Intersegmental General Education Transfer Curriculum “IGETC” for CSU (34-40 semester units)
- California State University General Education Breadth pattern (39 semester units)

II. Major
Complete 18-27 units as outlined below with a “C” or better in each course. Pass/no pass grading is not permitted in a course within a student’s major area of study. The courses completed for the major may also be used to fulfill general education areas on the IGETC or the CSU GE Breadth.

Required Core (6-7 units)
PHIL 100* — Introduction to Philosophy or ......................... 3
PHIL 100H — Introduction to Philosophy, Honors or .......... 4
PHIL 101* — Introduction to Ethics or .............................. 3
PHIL 101H* — Introduction to Ethics, Honors ...................... 4
PHIL 205* — Introduction to Logic .................................... 3
List A. Select one course from the following (3-5 units)
Any Required Core course not selected above or
COMM 235* — Argumentation and Debate ......................... 3
ECON 101* — Microeconomics ........................................ 3
ENG 111* — Critical Thinking and Comp. Through Lit or .... 3
   ENG 111H* — Critical Thinking and Comp.
   Through Lit, Honors ............................................. 3
FR 104* — Intermediate French II ................................ 5
GER 104* — Intermediate German II ............................... 5
ITAL 104* — Intermediate Italian II ................................ 5
JAPN 104* — Intermediate Japanese II ............................ 5
PHIL 102* — Comparative World Religions or ................. 3
   PHIL 102H* — Comparative World Religions, Honors .... 3
PHIL 111* — Critical Thinking and Writing in Philosophy .... 3
PHIL 200* — History of Philosophy: Ancient ................. 3
PHIL 201* — History of Philosophy: Modern ............... 3
PHIL 203* — History of Philosophy: Contemporary ....... 3
PHIL 204* — History and Philosophy of the
   Great Ideas of Physics ........................................... 3
PHIL 207A* — Comparative Philosophy, East and West .... 3
SPAN 104*— Intermediate Spanish II .............................. 5

List B. Select two courses from the following (6-10 units)
Any List A course not selected above and/or
HIST 103* — History of Western Civilization ................ 3
HIST 104* — History of Western Civilization or ........... 3
   HIST 113H* — History of Western Civilization, Honors .... 4

List C. Select one course from the following (3-5 units)
Any course from List A or B not selected above or
ASL 101*, 102*, 103*, 104*, ARBC 101*, 102*, ASAM 101*,
   102*, BLST 102H*, 113*, CHST 101, 113*, 114*, 115*,
   CHIN 101*, 102*, 103*, ECE 115*, ENG 221*, 222*, 222H*,
   FR 101*, 102*, 103*, GER 101*, 102*, 103*, HEBR 101*,
   137*, 138*, ITAL 101*, 102*, 103*, JAPN 101*, 102*, 103*,
   KOR 101*, 102*, LATN 101*, 102*, NATA 105*, 113*,
   POLS 132*, PSY 135*, SPAN 101*, 102*, 103*, 132*, 133*,
   134*, 135*, 136*, 138*, 139*, 146*, 147*, 150*, 160*

*These courses fulfill an IGETC and/or a CSU GE Breadth pattern requirement. Visit www.assist.org or http://articulation.
sbcc.edu for a complete list of IGETC and CSU GE Breadth requirements.

III. CSU-Transferable Electives
Complete as many units as needed to reach a total of
60 CSU-transferable units (for a list of SBCC-
transferable courses to CSU, visit www.assist.org).

Additional Graduation Requirements for
AA-T in Philosophy
• Maintain a cumulative CSU-transferable GPA of 2.0.
• Residency Requirements: Candidates for an
   Associate Degree are expected to complete 15
   semester units in residence at SBCC. Candidates
   for an Associate Degree are also expected to
   complete at least 20% of the department major
   requirements in residence at SBCC.

Honors and Awards
The Philosophy Department selects one student as
Outstanding Student who is presented the Philosophy
Award at the annual year-end Santa Barbara City
College Awards Banquet. No application for the award
is required of students.

Special Programs
Housed within the Department of Philosophy is the
Center for Philosophical Education. CPE serves primarily
two functions. First, CPE publishes the undergraduate
international journal of philosophy, STOA. It is published
twice a year and features outstanding faculty-nominated
undergraduate papers from around the world.
   Second, CPE organizes international conferences
in philosophy, which are held on the SBCC campus.
Hosting groups of outstanding philosophers from
primarily the United States and Europe for multiple-
day events, CPE provides, through its conference
offerings, unique and enriching professional academic
experiences for both philosophy students as well as
the greater Santa Barbara community. Contact the
Philosophy Department for CPE or STOA information:
www.sbcc.edu/philosophy.
   The Philosophy Department also sponsors the Peter
A. Angeles Colloquia, a year-long, campus-wide series
of lecture-discussions involving scholars, politicians
and entertainers of national and international stature.
The lectures are traditionally held in the Garvin Theatre
and occur typically once a month. Previous lectures can be seen on videotape in the LRC.

The Philosophy Department also sponsors the Philosophy Club. Any students interested in the study of philosophy are encouraged to join. Officers are elected in the fall, and a yearlong agenda of speakers and meetings is developed by the membership. All members of the campus community are welcome.

Philosophy Courses

PHIL 100 — Introduction to Philosophy (3) — CSU, UC*
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture

General survey of the basic problems and systems in philosophy. Special consideration given to Elementary Logic, Epistemology, Metaphysics, Ethics, Philosophy of Religion, Political Philosophy and Aesthetics. (*UC Transfer Limit: PHIL 100 and 100H combined: maximum credit, one course).

PHIL 101 — Introduction to Ethics (3) — CSU, UC*
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture

Study of the types and history of ethical theories. Analysis of the factual and normative factors involved in making moral choices. Discussion of the nature of moral standards and values and their relevance to present times. Some usual topics include the meaning of “should,” “right,” “justice,” “blame,” “responsibility.” An examination of the moral aspect of social issues, such as abortion, euthanasia, the environment and drug legalization, etc. (*UC Transfer Limit: PHIL 101 and 101H combined: maximum credit, one course).

PHIL 102 — Comparative World Religions (3) — CSU, UC*
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture

Presentation and interpretation of the fundamental concepts, ideals, customs, rituals and insights of the major religious traditions. Religions discussed are Hinduism; Buddhism; Greek; Roman; Taoism; Confucianism; Shintoism; Jainism; Zoroastrianism; Sikhism; Judaism; Christianity; and Islam. (*UC Transfer Limit: PHIL 102 and 102H combined: maximum credit, one course).

PHIL 105 — Business Ethics (3) — CSU, UC
Skills Advisories: ENG 110 or 110H with a “C” or better
Hours: 54 lecture

Exploration of how to recognize, analyze and implement ethical decisions within the multi-valued contexts of
business. Study of major ethical theories and how they can be applied to business situations. Analysis of the factual and normative aspects of making moral choices and resolving moral dilemmas faced in the corporate world. Issues include corporate responsibility, employee and consumer rights, sexual harassment, fair hiring practices, obligations to the environment, multinational corporations and the ethics of international trade.

**PHIL 111 — Critical Thinking and Writing in Philosophy**  
(3) — CSU, UC  
*Prerequisites: ENG 110 or 110H with a "C" or better*  
*Hours: 54 lecture*

Examination of the basic elements of logic, including the study of the principles of inductive and deductive reasoning, and their relevance to problem-solving scientific methods and argument analysis/evaluation. Development of critical thinking skills, including identifying and evaluating arguments, recognizing informal fallacies, and the uses of language in a variety of contexts. Integration of critical thinking skills with the techniques of effective argumentative writing. *(Fulfills Critical Thinking requirement for IGETC/CSU General Education.)*

**PHIL 200 — History of Philosophy: Ancient**  
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 110 or 110H*  
*Hours: 54 lecture*

Study of the thought of major philosophers from the time of Thales, 640 B.C., through the Romans. Philosophers discussed are the Pre-Socratics, Socrates, Plato, Aristotle, the Greek Atomists (Leucippus, Democritus, Epicurus), the Stoics (Seneca and Epictetus) up to Marcus Aurelius.

**PHIL 201 — History of Philosophy: Modern**  
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 110 or 110H*  
*Hours: 54 lecture*

Study of the thought of the major philosophers from the time of the Renaissance/Reformation; rise of science in the 1500s to early 19th century. Philosophers discussed are Bacon; Hobbes; Descartes; Spinoza; Leibnitz; Locke; Berkeley; Hume; and Kant.

**PHIL 203 — History of Philosophy: Contemporary**  
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 110 or 110H*  
*Hours: 54 lecture*

Philosophers of the 19th and 20th centuries are studied, showing their impact upon thought, culture and society. Some of the philosophers presented are Bertrand Russell; G. Frege; G.E. Moore; Jean Paul Sartre; L. Wittgenstein; Ayer; Ryle; Heidegger; Husserl; Rawls; and Quine.

**PHIL 204 — History and Philosophy of the Great Ideas of Physics**  
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 110 or 110H*  
*Hours: 54 lecture*

Examines the history and development of the major ideas of physics. Designed particularly for philosophy students and others in the liberal arts and humanities. Physical ideas of three significant eras: ancient Greece; the beginnings of modern science from the 17th to 18th centuries, including the thinking of Copernicus, Galileo and Newton; and the revolutionary ideas of early 20th century and contemporary physics. Course is designed to be conceptual, rather than mathematical, in its investigation of the great ideas of physics.

**PHIL 205 — Introduction to Logic**  
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 110 or 110H*  
*Hours: 54 lecture*

Investigation into the nature of argument. Such topics as justification, induction, deduction, validity, language and thought, formal and informal fallacies are discussed. Includes an introduction to Traditional Categorical Logic, and the Propositional Calculus and Quantification Theory.

**PHIL 207 — Issues in Philosophy Series**  
(1-3) — CSU  
*Skills Advisories: Eligibility for ENG 98 and 103*  
*Hours: 54 lecture*

Important issues (philosophers, topics, problems and fields) of philosophy are studied, revealing their impact on our lives, thought and civilization. Issues presented in this series include bioethics; mind/body problem; pacifism; morality and human nature; philosophy of art; philosophy and literature; philosophy and politics; philosophy of education; philosophy of science;
Philosophy of film; the philosophy of mathematics; philosophy of mind; and comparative philosophy.

**PHIL 207A — Comparative Philosophy, East and West**  
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 98 and 103*  
*Hours: 54 lecture*

Critical examination of the predominant philosophical ideas of three of the most influential physiological perspectives in world history: Western regionalism, Indian mysticism and Chinese social relationalism.

**PHIL 295 — Internship in Philosophy**  
(2-4) — CSU  
*Skills Advisories: Eligibility for ENG 110 or 110H*  
*Limitation on Enrollment: Completion of two courses (in applicable discipline) at SBCC prior to enrolling in an internship course.*  
*Hours: 108-273 lab*

Structured internship program in which students gain experience in community organizations related to the discipline.

**PHIL 299 — Independent Study in Philosophy**  
(1-4) — CSU  
*Limitation on Enrollment: At least three Philosophy courses. To be eligible for independent study, a student must have completed a minimum of 12 units at Santa Barbara City College with a 2.5 GPA*  
*Hours: 48-192 lab*

For complete information, see “Independent Study” in the Catalog Index. (*UC Transfer Limit: computed as Independent Study; see counselor*)
Physical Education/Health Education/Dance/Athletics

Degrees, Awards and Certificates
Associate of Arts Degree: Healthy Aging
Associate in Arts Degree: Physical Education
Associate in Arts Degree: Physical Education:
  Emphasis in Athletic/Personal Fitness Training
Associate in Arts Degree (AA-T):
  Kinesiology for Transfer

Skills Competency Award
Healthy Aging

Departmental Certificate
Adult CPR Certificate (Red Cross)

Program Description
Physical education provides opportunities for students to gain current knowledge of physical fitness facts, healthful living practices, leisure time pursuits, stress management techniques, and to receive instruction in the skills necessary for successful participation in activities necessary for optimum health and physical efficiency.

The profession is based on the philosophy that physical education is an academic discipline, an essential portion of the General Education process. Further, the physical education curriculum is centered on the concept that movement skills, intellectual development, physical fitness and healthful living practices are elements of life that must be taught and reinforced. Specific knowledge, skills and practice techniques that best benefit the student do not just happen. Instruction, analysis and evaluation by a credentialed professional is essential for implementing this philosophy.

The Santa Barbara City College Physical Education Department is proud to provide SBCC students, faculty and staff with the Life Fitness Center (LFC), a state-of-the-art physical fitness facility. The Life Fitness Center offers a series of courses that employ an open-entry format that allows students to use the facility during a variety of convenient hours. The LFC features the “aerobic super circuit” considered by many experts to be one of the most effective ways to train and improve physical health. The LFC is set up to accommodate the needs of students of all ages, sizes and skill levels. The LFC is also home to the Human Performance Lab, which provides students with an opportunity for a complete fitness assessment. Lastly, the LFC and the Human Performance Lab provide an excellent teaching facility for students interested in careers in personal fitness training. See department chair for information.

The varied offerings of the department are grouped within these categories:
- Aquatics
- Combatives
- Dance
- Fitness/Cardiovascular Activities
- Health Education Courses
- Healthy Aging
- Individual/Dual Activities
- Intercollegiate Athletics
- Team Sport Activities
- Theory and Professional Preparation Courses

Note. A student is allowed to take one course in each level only of any one discipline. There a total of four enrollments only in the Life Fitness Center family of courses. The student is encouraged to move progressively through the skill levels. All such activity courses transfer to CSU and UC branch institutions; however, there are limitations. UC limits the total credit for any/all activity courses to four (4) units. See a counselor for details.

The Healthy Aging AA Degree and Skills Competency Award will provide education and hands-on experiences in the areas of health promotion, nursing, health maintenance, accident and fall prevention, social conditions, accessibility to medical care and/or social services that can lead to healthy aging among older adults. The program is based on Evidence-based Healthy Promotion (EBHP) among older adults. The program provides practical and effective techniques for everyday good health and preventing disease.

The Physical Education Department at SBCC offers four AA degrees in Physical Education and Healthy Aging which provide students with a foundational knowledge on the processes through which individuals obtain optimal health, physical skill, and fitness. The physical and health educator, whether in a laboratory, school, medical or business setting, is ultimately concerned with improving the individual’s health and well-being. The programs prepare students to
make a successful transition into a Baccalaureate Degree in Kinesiology at any four-year institution. These Physical Education degrees present students with more career opportunities than ever before. In addition to the traditional areas of teaching, coaching, recreation and dance, Physical Education majors are finding that the disciplines of physical therapy, athletic training, rehabilitation services, exercise specialties and fitness are more and more in demand. In addition, as preventive health care becomes more prevalent, the physical educator should find an even wider range of opportunities. Students with such interests should discuss their plans with a counselor or department adviser as early as possible.

In addition, the Physical Education Department offers an AA-T Degree in Kinesiology for Transfer. This degree will provide the foundational knowledge in Kinesiology to students who want to earn a Baccalaureate Degree in Kinesiology. This degree is in compliance with the Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code Sections 66746-66749) and guarantees admission to a California State University (CSU) campus for any community college student who completes an “associate degree for transfer,” a newly established variation of the associate degrees traditionally offered at a California community college. Upon completion of the transfer associate degree, the student is eligible for transfer with junior standing into the California State University (CSU) system. Students will be given priority consideration when applying to a particular program that is similar to the student’s community college area of emphasis. For the latest information about transfer degrees, visit www.sb1440.org.

Planning a Program of Study
Physical Education and Healthy Aging majors are encouraged to have their programs confirmed by the Department Academic Advisor and Division Chairperson (Kathleen O’Connor, ext. 2322, kaoconnor@pipeline.sbcc.edu). Continuing appraisal and evaluation will help to ensure regular progress toward completion of goals and coursework.

Preparation for Transfer
Course requirements for transfer vary depending upon the college or university a student wishes to attend. Therefore, it is most important for a student to consult with his/her counselor and departmental adviser before planning an academic program for transfer. Information sheets for majors, outlining transfer requirements, are available in the Counseling Center.

Honors and Awards
The following honors and awards are given each year to deserving students:
Outstanding Student in Physical Education, Male and Female Athlete of the Year, special awards for athletic achievement in individual sports, the Dance Scholarship Award and the Louise Lowry Davis Inspirational Leadership Award in Women’s Athletics.

Division Categories
**Individual and Dual Activities**
1. Provide instruction and opportunities for students to develop their physical skills in a variety of activities that can be pursued during leisure time.
2. Provide instruction in the rules, safety measures, etiquette and use of strategies and techniques involved in individual and dual activities.

All activities under this category are coed unless specifically designated.

These activities are based on three levels of progressive instruction—Beginning, Intermediate and Advanced:

- **Beginning:** For students who wish to learn a new activity or who possess insufficient skills in a particular activity. Introductory instruction that explores the activity’s history, rules, etiquette, strategy, equipment and elementary skills.
- **Intermediate:** For students who already possess the rudimentary skills and abilities for the activity and who wish to improve those skills. This level will provide for a greater opportunity in student competition and performance. An increased emphasis is placed on the execution of skills and proficiencies.
- **Advanced:** For the skilled performer who seeks to improve to the best of his/her ability. This level will prepare the student for highly intensive performance levels. Instruction will accentuate competition and advanced strategies. A higher level of accomplishment is stressed.

All Beginning, Intermediate and Advanced activities classes are 0.9 hours lecture and 2.33 hours lab weekly.
Faculty and Offices
Kathy O’Connor, Chair (PE-212, ext. 2322)
Paula Congleton (PE-304, ext. 2883)
Scott Fickerson (PE-310, ext. 2275)
Morris Hodges (PE-309, ext. 2272)
Tracy Kofford (PE-308, ext. 3732)
Charles Melendez (PE-305, ext. 3467)
Craig Moropoulos (PE-307, ext. 2460)
Ellen O’Connor (PE-306, ext. 2270)
Sandrine Rocher-Krul (PE-313, ext. 4028)
Jeffrey Walker (PE 310B, ext. 2273)

Faculty Advisers/Special Program Advisers
Kathy O’Connor, Faculty Adviser, Physical Education and Athletics (PE-212, ext. 2322)
Michael Gamboa, Special Program Adviser (PE-211, ext. 4180)

Health Education
Courses in Health are provided as a General Education program and serve as an adjunct to the Physical Education Department. The courses are designed to provide information on personal and consumer health practices relevant to contemporary lifestyles.

AA Degree: Healthy Aging

Healthy Aging: Skills Competency Award
1. Formulate a plan that would promote healthy aging incorporating new data and guidelines on risk factors, nutrition, preventive measures an intervention presented in the course.
2. Distinguish personal, social, and environmental factors and barriers influencing or impeding behavior change among older adults.
3. Develop activities related to fitness, nutrition, stress management, and serenity according to evidence based health promotion practices across the care continuum for older adults.
4. Identify and assess the aging process and physical changes on the human body and its level of function in relation to lifestyle modifications and preventative care strategies.
5. Employ field site methods in Evidenced Based Health Promotion.

AA Degree: Healthy Aging
Department Requirements (24.5-26.5 units)
CNA 105 — The Art of Caring for the Person with Dementia-Memory Care Basics..........................4.5
CNA 106 — Compassionate Communication for Caregivers: The Art of Connecting in a Care Giving Relationship ......1
HE 201 — Introduction to Healthy Aging ..........................3
HE 202 — Health Promotion: Behavior Change Theories and Practice........................................3
HE 203 — Health Promotion: Lifestyle Mod and Prev Health Care Strategy....................................3
HE 290 — Work Experience in Healthy Aging..............................3-4
PSY 100 — General Psychology or PSY 100H — General Psychology, Honors.................................3-4
PSY 145 — Human Development........................................3

Plus one of the following:
ADC 124 — Chemical Dependency and the Family..............3
BMS 128 — Human Nutrition..........................................3
PSY 115 — Psychology of Health and Effective Behavior.........................................................3
PSY 175 — Social Psychology: Psychological Perspective......................................................3
SOC 104 — Social Psychology..........................................3
Skills Competency Award: Healthy Aging

Department Requirements (10-13 units)
HE 201 — Introduction to Healthy Aging ........................................... 3
HE 202 — Health Promotion: Behavior Change
   Theories and Practice ................................................................. 3
HE 203 — Health Promotion: Lifestyle Mod and
   Prev Health Care Strategy ...................................................... 3
HE 290 — Work Experience in Healthy Aging ............................. 1-4

AA Degree: Physical Education
The general degree in Physical Education is intended
for individuals who wish to obtain entry-level positions
in health clubs, the YMCA, youth sports organizations
or camps. This degree will also help prepare students
to transfer into a kinesiology program at a four-year
university.

AA Degree: Physical Education
Program Student Learning Outcomes
1. Articulate the differences between Physical
   Education and Athletics.
2. Recognize the potential for service to the
   individual, community and society provided by
   Physical Education and Athletics.
3. Describe the role of PE/Kinesiology as an
   academic discipline and its role in health
   promotion and disease prevention.
4. Demonstrate knowledge of functional human
   anatomy, physiology and biomechanics, and
   demonstrate proficiency in a variety of physical
   activity skills.
5. Develop appropriate physical training programs
   for adults based on demonstrated knowledge
   of coronary risk factor analysis, exercise
   prescription and nutritional guidelines established
   by industry standards

AA Degree: Physical Education
Department Requirements (43-45 units)
BIOL 100 — Concepts of Biology ................................................. 4
BMS 107 — Human Anatomy .................................................... 4
BMS 108 — Human Physiology .................................................. 4
CHEM 101 — Introduction to Chemistry or
   CHEM 104 — Fundamentals of General,
   Organic and Biological Chemistry .................................... 4
HE 101 — Personal Health Awareness ...................................... 3
HE 103 — Responding to Medical Emergencies .................... 3
HE 104 — Introduction to Athletic Injuries .............................. 3
HE 213 — Concepts in Physical Fitness .................................. 3
PE 200 — Introduction to Kinesiology .................................. 3
Plus 9 courses of Controlled Physical Education Activities
   selected as follows (all PE activity courses apply to Area
   E3 of the SBCC General Education pattern):
   Choose one course from each category
   Aquatics: PE 132ABC, 133, 134A, 137, 220A
   Fitness/Cardiovascular: PE 106AB, 112A, 138ABC, 139,
   143A, 144ABC, 146, 147ABCD, 148AB, 149, 166, 168, 169,
   176AB, 177, 179, 195, 196, 224
   Dance: PE 150ABC, 151AB, 152ABC, 153, 156
   Combatives: 162A, 163, 164
   Choose three courses from: Team Sports
   PE 120ABC, 121ABC, 122ABC, 124ABC, 125ABC, 126ABC,
   127ABC, 219AB
   Choose two courses from: Individual Sports
   PE 101AB, 103AB, 109ABC, 226

AA Degree: Physical Education, Emphasis in
Athletic/Personal Fitness Training
The degree emphasis in Athletic/Personal Fitness
Training prepares students to transfer to a four-year
university and major in kinesiology, with an emphasis
in Athletic Training or Sports Medicine. The practicum
hours completed may count toward certification as an
athletic trainer.

AA Degree: Physical Education:
Athletic/Personal Fitness Training
1. Articulate the differences between Physical
   Education and Athletics.
2. Recognize the potential for service to the
   individual, community and society provided by
   Physical Education and Athletics.
3. Demonstrate knowledge of functional anatomy,
   physiology and biomechanics, and properly
   demonstrate proficiency in a variety of physical
   activity skills.
4. Explain the appropriate course of treatment for
   each of the most common sports injuries.
5. Identify the factors that contribute to an evaluation of an injury and determine the treatment plan for safe return to sport participation.
6. Demonstrate and implement rehabilitative exercises appropriate to each sport.
7. Assess motivational readiness for client exercise and develop effective strategies for health behavior change consistent with the stages of the Transtheoretical Model of motivational readiness.
8. Develop appropriate physical training programs for children, adults and special needs populations based on demonstrated knowledge of coronary risk factor analysis and exercise prescription standards defined by NASM / ACSM.
9. Administer appropriate practical physical fitness and muscular balance assessments.
10. Demonstrate academic competencies sufficient to pass professional certification exams consistent with entry-level positions in the health and fitness industry.
11. Demonstrate effective communication skills to lead individual and group fitness training sessions.

AA Degree: Physical Education:
Athletic/Personal Fitness Training

Departmental Requirements (40.5-45.5 units)
BMS 107 — Human Anatomy ........................................... 4
BMS 108 — Human Physiology ........................................... 4
BMS 128 — Human Nutrition ........................................... 3
HE 103 — Responding to Medical Emergencies ...................... 3
HE 104 — Introduction to Athletic Injuries ........................... 3
HE 108 — Advanced Assessment and Treatment of Athletic Injuries ........................................... 3
HE 213 — Concepts in Physical Fitness .................................. 3
HE 220 — Fundamentals of Exercise Testing and Fitness Instruction ........................................... 3
PE 200 — Introduction to Kinesiology ................................. 3
PE 290 — Work Experience in Physical Education or .... 1-4
PE 295 — Internship in Physical Education/Health Education ........................................... 2-4

Plus 6-8 units of Controlled Electives:
CHEM 101 — Introductory Chemistry or
CHEM 104 — Fundamentals of General, Organic and Biological Chemistry ........................................... 4

PHYS 101 — Conceptual Physics ........................................... 3
PSY 100 — General Psychology or ................................... 3
PSY 100H — General Psychology, Honors .......................... 4

Plus 3 units of Controlled Physical Education Activities.
PE 143 (Integrated Training for Fitness) is required with at least one course from the aerobic conditioning group and one from the flexibility group (all PE activity courses apply to Area E3 of the SBCC General Education pattern):
PE 143A — Integrated Training for Fitness ......................... 1.5
Flexibility: PE 139, 146, 176AB, 176B

College Requirements
For complete information, see “Graduation Requirements” in the Catalog Index.

Requirements for AA-T Degree—
Kinesiology for Transfer
The goal of the Kinesiology Program at Santa Barbara City College is to prepare students to develop the fundamental understanding of the influence of human movement on the acquisition of physical skills, personal health and intellectual development. The study of Kinesiology is an academic discipline and an essential component of the general education process. Kinesiology contributes to the broader understanding of human development and the role that movement plays in cultural, social and personal expression. Students are advised to meet with an academic counselor to discuss the best combination of courses to take for their AA-T and to meet the requirements of the transfer institution to which they are intending to transfer. For example, requirements for the Baccalaureate Degree in Kinesiology vary from one institution to another. It is, therefore, essential to become familiar with the requirements of the institution a student plans to attend.

The Associate in Arts Degree in Kinesiology for Transfer provides students with the foundational knowledge in Kinesiology needed to make a successful transition into a Baccalaureate Degree in Kinesiology at any of the CSU campuses.

AA-T Degree: Kinesiology for Transfer
1. Demonstrate knowledge of functional anatomy, physiology, and biomechanics consistent with proper execution of movement skills.
2. Demonstrate proficiency in a variety of physical activity skills.
3. Articulate the differences between Kinesiology and Athletics.
4. Articulate the potential for service to the individual, community, and society provided through the study and application of Kinesiology.

Degree Requirements
Complete 60 CSU-transferable units including General Education, major requirements and CSU-transferable electives as follows:

I. General Education
Complete one of the following patterns:
- Intersegmental General Education Transfer Curriculum "IGETC" for CSU (38 semester units)
- California State University General Education Breadth pattern (40 semester units)

II. Major
Complete 21-27.5 units as outlined below with a “C” or better in each course. Pass/No Pass grading is not permitted in a course within a student's major area of study. The courses completed for the major may also be used to fulfill general education areas on the IGETC or the CSU GE Breadth.

Required Core (14-18.5 units)
BMS 107* — Human Anatomy ...................................... 4
BMS 108* — Human Physiology........................................ 4
PE 200 — Introduction to Kinesiology............................... 3

Movement-Based Courses – Select a maximum of one (1) course from any three (3) of the following areas:
Combatives: PE 162A 162B, 163, 164


List A. Select two courses from the following (7-9 units)
BIOL 100* — Concepts of Biology or
BIOL 140* and 141* — Principles of Biology and Biol Lab.........................................................4
CHEM 101* — Introductory Chemistry or
CHEM 104* — Fund of General, Organic and Biol Chem or
CHEM 155* — General Chemistry I................................. 4-5
HE 103 — Responding to Medical Emergencies................. 3
MATH 117* — Elementary Statistics or
MATH 117H* — Elementary Statistics, Honors or
PSY 150 — Statistics for Behavioral Science.................................4
PHYS 101* and 101L* — Conceptual Physics and Lab or
PHYS 102* — Intro Physics for Science Majors or
PHYS 105* — General Physics or
PHYS 110* — Introductory Physics.................................. 4

* These courses fulfill an IGETC and/or a CSU GE Breadth pattern requirement. Visit www.assist.org or http://articulation.sbcc.edu for IGETC and CSU GE Breadth requirements.

III. CSU-Transferable Electives
Complete as many units as needed to reach a total of 60 CSU-transferable units (for a list of SBCC-transferable courses to CSU, visit www.assist.org).

Additional Graduation Requirements for AA-T in Kinesiology:
- Maintain a cumulative CSU-transferable GPA of 2.0.
- Residency Requirements: Candidates for an Associate Degree are expected to complete 15 semester units in residence at SBCC. Candidates for an Associate Degree are also expected to complete at least 20% of the department major requirements in residence at SBCC.
Health Education Courses

HE 101 — Personal Health Awareness
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 lecture

Designed to identify and find ways in which to deal with a variety of health issues, including mental and emotional health, value systems, drugs and alcohol, fitness and nutrition, sexuality and relationships, death and dying, cardiovascular disease and cancer. Satisfies credential requirement for elementary and secondary school teachers. (*UC transfer limit: HE 101 and 102 combined: maximum credit, one course)

HE 102 — Personal Health: For Women
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 lecture

Designed for both men and women, course deals with a variety of health issues, with special emphasis on health factors unique to women. Topics include mental and emotional health, date rape and partner and child abuse, drugs and alcohol, fitness and nutrition, and sexuality and relationships. (*UC transfer limit: HE 101 and 102 combine: maximum credit, one course)

HE 103 — Responding to Medical Emergencies
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 lecture

Recommended for all students who have an interest in learning to recognize, assess and provide care for injuries or sudden illness until professional medical help arrives. Emphasizes the importance of a safe, healthy lifestyle and the prevention of injuries. American Red Cross Responding to Emergency and Adult CPR certification possible.

HE 104 — Introduction to Athletic Injuries
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 98 and 103
Course Advisories: BMS 100 or BIOL 100
Hours: 54 lecture

Designed to teach students interested in allied health professions, coaching, or personal enhancement. The methods of prevention, recognition, and care of sports-related injuries through lecture and hands-on experience. Comprehension of injury-causing mechanisms, the resulting pathology, protective taping/wrapping, and the awareness of the duties of the athletic trainer are emphasized.

HE 108 — Advanced Assessment and Treatment of Athletic Injuries
(3) — CSU, UC
Prerequisites or Corequisites: HE 104
Skills Advisories: Eligibility for ENG 98 and 103
Course Advisories: BMS 107
Hours: 54 lecture

Designed to teach students interested in paramedical professions (Pre-med, Physical Therapy, Athletic Training) and coaching. The proper methods of systematic evaluation and rehabilitative principles/techniques of athletic injuries through lecture and “hands-on” laboratory. Comprehension of evaluation skills in scenarios, theory/utilization of modalities, and implementation of rehabilitative techniques for sport injuries is stressed. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

HE 109 — Health and Physical Fitness for Older Adults
(1) — CSU
Hours: 18 lecture

Designed to advance the understanding of the relationship between living habits and health for older adults. Enhances the physical and emotional well-being of individuals by providing information and activities designed for improvement of nutrition, fitness, cardiovascular health and stress management skills. Student is able to design a safe and effective health program.

HE 110 — Sports Nutrition
(3) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 36 lecture

Examines nutrients and their effects on physical performance. Topics include basic nutrition principles, pre- and post-exercise nutrition, eating for weight control/gain, proper hydration and eating disorders. Also examines the pharmacological, hormonal, physiological and nutritional agents that have purported ergogenic properties.
HE 111 — Understanding Human Sexuality
(3) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 lecture

Human sexuality course introduces physiological, psychological, sociological and cultural aspects; and explores personal perspectives. (*UC Transfer Limit: HE 111 and PSY 125 combined: maximum credit, one course)

HE 112 — Adult CPR
(.25)
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 4.5 lecture

Recommended for students who have an interest in learning how to recognize, assess and provide care for cardiac events until professional medical help arrives. American Red Cross CPR certification possible.

HE 113 — CPR/AED for the Professional Rescuer
(0.5) — CSU
Skills Advisories: Eligibility for ENG 103
Hours: 9 lecture

Provides advanced American Red Cross cardiopulmonary resuscitation and automated external defibrillation skills and knowledge to enable students to save a life; may serve as prerequisite for other courses.

HE 201 — Introduction to Healthy Aging
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 lecture

Introductory course of Healthy Aging Resources and Programs Skills Competency Award. Designed to identify and examine the biological, psychological and social issues associated with the aging process, and reviews aspects of healthy aging among adults.

HE 202 — Health Promotion: Behavior Change Theories and Practice
(3) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 lecture

Second course for Healthy Aging Resources and Programs Skills Competency Award. Examines learning theories, behavior change, processes and motivational theories, as well as communication skills among older adults.

HE 203 — Health Promotion: Lifestyle Modifications and Preventative Health Care Strategies
(3) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 lecture

Third course for Healthy Aging Resources and Programs Skills Competency Award. Introduces concepts and skills required to meet NCCAP certification standards for becoming an Activities Professional. Prepares students for basic functions and duties of an activity professional including designing, evaluating, and delivering activity services for older adults.

HE 213 — Concepts in Health and Physical Fitness
(3) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 lecture

Examines current health and physical fitness concepts which prevent disease and enhance the quality of life. Emphasis is on applying theory to everyday living. Topics include personal health profiles, heart disease and risk factor identification, exercise prescription, muscular and cardiovascular fitness, weight management, stress management, posture evaluation and nutritional analysis. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

HE 220 — Fundamentals of Exercise Testing and Fitness Instruction
(3) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 72 (45 lecture, 27 lab)

Designed to teach physical fitness assessment skills and evaluation and exercise program design, with appropriate modification for special populations. Students learn how to teach individual and group exercise sessions.

HE 290 — Work Experience in Healthy Aging
(1-4) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 240 lab

Provides students opportunities to work in Evidenced-Based Health Promotion Programs and programs specifically for health promotion for older adults. Work/Internship opportunities for students enrolled in the Healthy Aging programs.
Physical Education Courses

PE 101A — Beginning Badminton
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Designed to provide the student with basic fundamentals, history, strategies, rules and etiquette of the game. These activities are based on two levels of instruction: beginning and intermediate. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 101B — Intermediate Badminton
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Designed to provide the student with basic fundamentals, history, strategies, rules and etiquette of the game. These activities are based on two levels of instruction: beginning and intermediate. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 103A — Beginning Golf
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
(Note: There is a $25 fee)
Hours: 54 (12.6 lecture, 41.4 lab)
For students who wish to learn a new activity or who possess insufficient skills in golf. Introductory instruction that explains the activities, history, rules, etiquette, strategy, equipment and elementary skills of golf. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 109A — Beginning Tennis
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Tennis is a part of the sports program of the Physical Education Department. Class provides instruction and opportunities for students to develop and improve their skills in tennis and knowledge of stroke production, terminology, rules, etiquette, strategy and match play. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 109B — Intermediate Tennis
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Provides instruction and opportunities for students to develop and improve their skills in tennis and knowledge of stroke production, terminology, rules, etiquette, strategies and match play. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 109C — Advanced Tennis
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Instruction at the advanced level for students to develop and improve their skills in tennis, stroke production, terminology, rules, etiquette, strategy, mental toughness and match play. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)
PE 220A — Beginning Ocean Swimming
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Further knowledge in swimming techniques, principles, and water safety practices as they apply to marine environment. Skills to swim effortlessly and efficiently are emphasized. Major emphasis on freestyle stroke, with elements of other strokes incorporated. Students become comfortable and confident swimming long distances in various types of weather and water conditions. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 220B — Intermediate Ocean Swimming
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Provides students with knowledge and skill in swimming techniques to explore diverse open-water swimming opportunities. Experience in various marine conditions with water safety at the forefront. Interval and distance training in preparation for long distance events. Simulation of competition in large groups. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 224 — Triathlon
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Introduction to the fundamental skills, techniques and training for a triathlon. Includes training for all three disciplines of the triathlon: swim, bike and run. Training focuses on sprint and Olympic-length triathlons, with the primary concentration being the sprint triathlon. The objective of this course is to prepare students for participation in a sprint triathlon. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 227 — Hiking for Fitness
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Designed to teach basic fundamentals of hiking for fitness. Provides students the opportunity to participate, while developing overall strength and cardiovascular fitness. Wilderness first aid and survival skills also studied. Daily hikes are scheduled. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 229 — Adapted Physical Education
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 58.5 (13.5 lecture, 45 lab)
Exercise program for students with disabilities. Activities are adapted or modified to meet the individual needs and abilities of a student. Students with temporary and permanent disabilities served, as well as those with major health problems or chronic conditions. Students must have a physician’s statement indicating disability, specific restrictions and recommended activities. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 269 — Strength and Conditioning for Athletes
(1) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Designed to teach the fundamentals of general and sport-specific conditioning to increase muscular strength, endurance, and power utilizing weights and Olympic lifting techniques. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

Team Sport Activities
1. Provide instruction and practice in basic techniques of team sport activities.
2. Learn cooperation, sportsmanship, team play and strategy through team participation, plus values, history and rules of each sport.

All activities under this category are coed.
These activities are based on three levels of progressive instruction—Beginning, Intermediate and Advanced:

- **Beginning:** For students who wish to learn a new activity or who possess insufficient skills in a particular activity. Introductory instruction that explores the activity’s, history, rules, etiquette, strategy, equipment and elementary skills.
- **Intermediate:** For students who already possess the rudimentary skills and abilities for the activity
and who wish to improve those skills. This level will provide for a greater opportunity in student competition and performance. An increased emphasis is placed on the execution of skills and proficiencies.

- **Advanced**: For the skilled performer who seeks to improve to the best of his/her ability. This level will prepare the student for highly intensive performance levels. Instruction will accentuate competition and advanced strategies. A higher level of accomplishment is stressed.

All Beginning, Intermediate and Advanced activities classes are 0.9 hours lecture and 2.33 hours lab weekly.

**PE 120A — Beginning Baseball**  
(1.5) — CSU, UC*

Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 54 (12.6 lecture, 41.4 lab)

Provides opportunities for men to receive beginning-level instruction and training in skills, techniques, and strategies of baseball. Provides instruction and opportunities for students to develop desirable human relationships and social expression through interaction with classmates, instructors, and companions. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

**PE 120B — Intermediate Baseball**  
(1.5) — CSU, UC*

Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 54 (12.6 lecture, 41.4 lab)

Provides opportunities for men to receive intermediate-level instruction and training in skills, techniques and strategies. Provides instruction and opportunities for students to develop desirable human relationships and social expression through interaction with classmates, instructors and companions. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

**PE 120C — Advanced Baseball**  
(1.5) — CSU, UC*

Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 54 (12.6 lecture, 41.4 lab)

Provides opportunities for men to receive advanced-level instruction and training in skills, techniques, and strategies of baseball. Provide instruction and opportunities for students to develop desirable human relationships and social expression through interaction with classmates, instructors and companions. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

**PE 121A — Beginning Basketball**  
(1.5) — CSU, UC*

Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 54 (12.6 lecture, 41.4 lab)

Co-educational team sport activity which provides instruction and practice in the fundamentals of basketball technique, as well as team strategy. Individual skills such as catching, dribbling, passing, shooting, rebounding, offensive and defensive strategies are utilized. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

**PE 121B — Intermediate Basketball**  
(1.5) — CSU, UC*

Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 54 (12.6 lecture, 41.4 lab)

Co-educational team sport activity which provides instruction and practice in the fundamentals of basketball technique, as well as team strategy. Individual skills such as catching, dribbling, passing, shooting, rebounding, offensive and defensive strategies are utilized. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

**PE 121C — Advanced Basketball**  
(1.5) — CSU, UC*

Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 54 (12.6 lecture, 41.4 lab)

Provides instruction and practice in the fundamentals of basketball technique, as well as team strategy. Individual skills such as catching, dribbling, passing, shooting, rebounding, offensive and defensive strategies are utilized. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

**PE 122A — Beginning Flag Football**  
(1.5) — CSU, UC*

Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 54 (12.6 lecture, 41.4 lab)
Instruction and practice in the fundamentals, strategies, and rules of the game of flag football. These activities are based on a beginning level. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units).

**PE 122B — Intermediate Flag Football**  
(1.5) — CSU, UC*  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 54 (12.6 lecture, 41.4 lab)

Instruction and practice in the fundamentals, strategies, and rules of the game of flag football. These activities are based on an intermediate level. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

**PE 122C — Advanced Flag Football**  
(1.5) — CSU, UC*  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 54 (12.6 lecture, 41.4 lab)

Instruction and practice in the fundamentals, strategies, and rules of the game of flag football. These activities are based on an advanced level. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

**PE 123A — Beginning Track and Field**  
(1.5) — CSU, UC*  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 54 (12.6 lecture, 41.4 lab)

Track and field provides instruction and practice in the fundamentals, skills and techniques of all track and field events. It provides a conditioning program involving event-specific running and event-specific techniques and drills. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

**PE 123B — Intermediate Track and Field**  
(1.5) — CSU, UC*  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 54 (12.6 lecture, 41.4 lab)

Track and field provides instruction and practice of intermediate skills and techniques of all track and field events. It provides a conditioning program involving event-specific running and event-specific techniques and drills. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

**PE 123C — Advanced Track and Field**  
(1.5) — CSU, UC*  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 54 (12.6 lecture, 41.4 lab)

Track and field provides instruction and practice in the advanced skills and techniques of all track and field events. It provides a conditioning program involving event-specific running and event-specific techniques and drills. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

**PE 124A — Beginning Soccer**  
(1.5) — CSU, UC*  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 54 (12.6 lecture, 41.4 lab)

Beginning soccer skills. History, rules and terminology will be taught along with team offense and defense. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

**PE 124B — Intermediate Soccer**  
(1.5) — CSU, UC*  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 54 (12.6 lecture, 41.4 lab)

For students who wish to learn intermediate soccer skills. Rules and terminology are taught, along with team offense and defense. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

**PE 124C — Advanced Soccer**  
(1.5) — CSU, UC*  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 54 (12.6 lecture, 41.4 lab)

For students who wish to learn beginning, intermediate and advanced soccer skills. History, rules and terminology are taught along with team offense and defense. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

**PE 125A — Beginning Softball**  
(1.5) — CSU, UC*  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 54 (12.6 lecture, 41.4 lab)

Beginning play in fastpitch softball. Emphasis is on rules, strategy, and motor skill development for the
beginning player to prepare him/her for competitive play. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

**PE 125B — Intermediate Softball**

(1.5) — CSU, UC*  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 54 (12.6 lecture, 41.4 lab)  
Intermediate play in fastpitch softball. Emphasis is on rules, strategy and motor skill development for the intermediate player to prepare him/her for competitive play. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

**PE 125C — Advanced Softball**

(1.5) — CSU, UC*  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 54 (12.6 lecture, 41.4 lab)  
Advanced play in fastpitch softball. Emphasis is on rules, strategy and motor skill development for the advanced player to prepare the athlete for competitive play. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

**PE 126A — Beginning Beach Volleyball**

(1.5) — CSU, UC*  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 54 (12.6 lecture, 41.4 lab)  
Co-educational team sport activity which provides instruction and practice in fundamental beach volleyball techniques. Individual skills, such as passing, setting, hitting, blocking and serving, as well as team offensive and defensive strategies, are utilized depending on level of course. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

**PE 126B — Intermediate Beach Volleyball**

(1.5) — CSU, UC*  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 54 (12.6 lecture, 41.4 lab)  
Co-educational team sport activity which provides instruction and practice in fundamental beach volleyball techniques. Individual skills, such as passing, setting, hitting, blocking and serving, as well as team offensive and defensive strategies, are utilized depending on level of course. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

**PE 126C — Advanced Beach Volleyball**

(1.5) — CSU, UC*  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 54 (12.6 lecture, 41.4 lab)  
Co-educational team sport activity which provides instruction and practice in fundamental beach volleyball techniques. Individual skills, such as passing, setting, hitting, blocking and serving, as well as team offensive and defensive strategies, are utilized depending on level of course. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

**PE 127A — Volleyball**

(1.5) — CSU, UC*  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 54 (12.6 lecture, 41.4 lab)  
Co-educational team sport activity which provides instruction and practice in fundamental volleyball techniques. Individual skills, such as passing, setting, hitting, blocking and serving, as well as team offensive and defensive strategies are utilized depending on level of course. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

**PE 127B — Volleyball**

(1.5) — CSU, UC*  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 54 (12.6 lecture, 41.4 lab)  
Co-educational team sport activity which provides instruction and practice in fundamental volleyball techniques. Individual skills, such as passing, setting, hitting, blocking and serving, as well as team offensive and defensive strategies are utilized depending on level of course. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

**PE 127C — Volleyball**

(1.5) — CSU, UC*  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 54 (12.6 lecture, 41.4 lab)
Co-educational team sport activity which provides instruction and practice in fundamental volleyball techniques. Individual skills, such as passing, setting, hitting, blocking and serving, as well as team offensive and defensive strategies are utilized depending on level of course. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 128 — Advanced Football Techniques
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Advanced skills and techniques of football are presented. Emphasizes rules, theory, advanced strategy and teamwork, and philosophy of intercollegiate football. Practical application of various physical training methods. (*UC Transfer Limit: PE 128, 200, and 218: any or all of these courses combined: maximum credit, 8 units)

PE 221 — Advanced Soccer Techniques: Women
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Provides opportunities for women to receive advanced soccer instruction and training in skills, techniques, strategies and leadership. Develops desirable human relationships and social expression through interaction with teammates, instructors and officials. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 222 — Advanced Soccer Techniques: Men
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Provides opportunities for men to receive advanced soccer instruction and training in skills, techniques, strategies and leadership. Develops desirable human relationships and social expression through interaction with teammates, instructors and officials. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

Aquatics
1. Provide instruction and opportunities for students to develop skills and knowledge of safety and lifesaving techniques in swimming.

2. Provide instruction and opportunities for students to develop skills and efficiency of movement in the water.

3. Develop skills and knowledge in elementary, intermediate and advanced forms of swimming, rescue and supportive first aid measures.

All activities under this category are coed. All Beginning, Intermediate and Advanced activities classes are 0.9 hours lecture and 2.33 hours lab weekly unless otherwise indicated

PE 132A — Novice Swimming
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Designed for the first-time water experience. Basic stroke techniques and selected water skills are covered. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 132B — Beginning Swimming
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Equips individuals with basic water safety skills and knowledge to make them reasonably safe in an aquatic environment. Introduces the freestyle (crawl) stroke, including breathing techniques, backstroke, breaststroke, butterfly, elementary backstroke and sidestroke. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 132C — Intermediate Swimming
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Provides individuals with the opportunity to learn and perfect the competitive swimming strokes—backstroke, breaststroke, butterfly and freestyle. It provides a workout environment for developing swimming endurance and speed, with instruction in starts, turns, relays and safety/survival skills. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)
PE 132D — Advanced Swimming
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Provides individuals with the opportunity to learn and perfect the competitive swimming strokes—backstroke, breaststroke, butterfly and freestyle. It provides a workout environment for developing swimming endurance and speed, and instruction in starts, turns and relays. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 133 — Ocean Kayaking
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Provides instruction and practice in the fundamentals of ocean kayaking: stroke technique, steering, launching, beaching, righting, water safety and cardiovascular fitness. Swim test administered. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 134A — Swimming for Conditioning: Beginning
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Beginning level course designed to improve the student's physical condition. Emphasis is on endurance, strength and improving stroke mechanics. Students learn principles of conditioning to improve cardiovascular endurance, muscular strength and flexibility. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 134B — Swimming for Conditioning: Intermediate
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Intermediate- to advanced level course designed to improve stroke mechanics and physical conditioning. Emphasis on refining the four competitive strokes and applying advanced principles of conditioning. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 134C — Swimming for Conditioning: Advanced
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Advanced-level course to improve stroke mechanics and physical conditioning. Emphasis is on perfecting stroke mechanics in the four competitive strokes, and applying advanced principles of conditioning. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 137 — Beginning Surfing
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Designed to teach the fundamentals of board surfing and provide beginning surfers the opportunity to safely develop the skills to ride waves. Paddling technique, wave selection, ocean safety, oceanography, equipment, tides and surf etiquette are explained. Students must swim comfortably 100m non-stop in order to continue in course (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 219A — Beginning Water Polo
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Co-ed class that provides the student with knowledge and skill in water polo techniques, drills, tactics and rules. Swimming skills and techniques are emphasized to enable swimming, passing and shooting. Students acquire basic skills that enable them to understand and participate in water polo competition. All students required to pass swimming test administered first week. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 219B — Intermediate/Advanced Water Polo
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Co-ed class that provides students with further knowledge and skill in water polo techniques, drills, tactics and rules. Water polo skills and techniques are emphasized to develop skills used at intermediate and advanced levels
of the sport. Acquisition of advanced skills that enable them to participate in intermediate and advanced levels of water polo competition. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 220A — Ocean Swimming: Beginning (1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Provides student with further knowledge in swimming techniques, principles and water safety practices as they apply to the marine environment. Skills to swim effortlessly and efficiently emphasized. Major emphasis on the freestyle stroke with elements of other strokes incorporated. Students become comfortable and confident swimming long distances in various types of weather and water conditions. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 220B — Intermediate Ocean Swimming (1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Provides students with knowledge and skill in swimming techniques to explore diverse open-water swimming opportunities. Experience in various marine conditions with water safety at the forefront. Interval and distance training in preparation for long distance events. Simulation of competition in large groups. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

Fitness/Cardiovascular Activities
1. Provide instruction and opportunities for students to develop optimum muscular strength and endurance, cardiovascular and respiratory endurance, flexibility, agility, coordination, balance, accuracy and speed.
2. Provide instruction and opportunities for students to experience vigorous activities, which promote relaxation and stress reduction.

All activities under this category are coed.

These activities are based on three levels of progressive instruction — Beginning, Intermediate and Advanced:
• **Beginning**: For students who wish to learn a new activity or who possess insufficient health or conditioning. Instruction will develop applications of basic cardiovascular fitness conditioning and establish the rudiments of muscle strength, endurance and flexibility.
• **Intermediate**: For individuals who possess average to above-average levels of fitness. Instruction will provide for an expansion of the knowledge and skills necessary to maintain an optimum level of fitness through progressively more difficult and specific exercise routines.
• **Advanced**: Provides continuing progressive methods of strength and fitness conditioning on a higher level. Advanced students must rely on knowledge gained in the previous two courses for their program development. Course is for the motivated and fit individual who wishes to meet his/her maximum potential.

All Beginning, Intermediate and Advanced activities classes are 0.9 hours lecture and 2.33 hours lab weekly except for LFC classes

PE 106A — Beginning Spinning for Fitness (1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Indoor cycling class geared towards improving one’s cardiovascular fitness and muscular endurance. Designed for individuals of all fitness levels, the program covers proper technique and training at various intensities. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 106B — Intermediate Spinning for Fitness (1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Indoor cycling class geared towards improving one’s cardiovascular fitness and muscular endurance. Designed for individuals looking to improve their basic level of fitness, the course covers intermediate skills and techniques while training at various intensities. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)
PE 112A — Body Conditioning Boot Camp: Beginning
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Provides instruction and opportunities for beginning-level students to develop optimum muscular strength, cardiovascular endurance and flexibility. Emphasis placed on safe and proper technique and body mechanics. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 112B — Body Conditioning Boot Camp: Intermediate
(1.5) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Designed to enhance core strength at an intermediate level. Cardiovascular development will also be emphasized, along with unique and dynamic training methods. Significant instruction on strength development techniques, such as Pre-activation, Kettle Bells, Swiss Balls, Dumbbells and Stable Surface (ground) exercises. Specifically designed for the conditioned student. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 112C — Beginning Cardio Boxing
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Using kickboxing fundamentals, provides skills for the development of physical and general health. Program works every major muscle group in the upper and lower body through basic leg movements, such as shuffle, slip and weave, as well as arm combinations including the jab, uppercut, hook and cross. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 138A — Intermediate Cardio Boxing
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Series of boxing, kickboxing and stretching exercises, arranged to music, gradually increasing in tempo as a non-stop 25- to 45-minute program, with 10 to 20 minutes of abdominal work and stretching. Training equipment includes focus mitts, bags and uppercut shields for basic punching and leverage punches. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 138B — Advanced Cardio Boxing
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Series of boxing, kickboxing and stretching exercises, arranged to music, gradually increasing in tempo as a non-stop 25- to 45-minute program, with 10 to 20 minutes of abdominal work and stretching. Training equipment includes focus mitts, bags and uppercut shields for basic punching and leverage punches. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 139 — Pilates Mat Fitness
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Co-educational instruction and practice in the fundamentals of Pilates mat work. Designed to condition and connect body and mind, correct muscle imbalances, strengthen core muscles, improve posture and increase flexibility to restore optimal functioning of the body. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 143A — Integrated Training: Beginning
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Integrated training incorporates cardiorespiratory endurance, flexibility, balance, core and resistance training into a progressive system to reduce muscular imbalances, improve posture and overall fitness. Focus on applications for the development of core stabilization, balance and correction of muscular imbalances. Training progressions based on individual assessment of muscular capabilities. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)
PE 143B — Integrated Training: Intermediate
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Integrated training incorporates cardiorespiratory endurance, flexibility, balance, core and resistance training into a progressive system to reduce muscular imbalances, improve posture and overall fitness. Focus on applications for the development of muscular hypertrophy and strength. Training progressions based on individual assessment of muscular capabilities. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 144A — Weight Training: Beginning
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Focuses on applications for the development of basic muscular strength and endurance for students new to weight training. Fundamentals of weight training program design, proper body mechanics, equipment selection and safe use of weight/resistance training equipment. Training programs individualized, based on fitness level. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 144B — Weight Training: Intermediate
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Focuses on applications for the development of muscular strength and endurance for students with basic weight training experience. Students learn weight training program design, proper body mechanics, equipment selection, and safe use of weight/resistance training equipment for intermediate performance. Training programs are individualized, based on fitness level and training goals. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 144C — Weight Training: Advanced
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Focuses on applications for the development of muscular strength and endurance for students with intermediate weight training experience. Students learn weight training program design, proper body mechanics, equipment selection and safe use of weight/resistance training equipment for advanced performance. Training programs are individualized, based on fitness levels and training goals. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 145A — Dance Fitness: Beginning
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Dance-based fitness class utilizing a variety of music and dance rhythms to promote cardiorespiratory fitness. Incorporates cardiovascular exercise, muscular endurance, balance and flexibility. Students engage in continuous dance to improve cardiovascular fitness while learning basic steps from merengue, salsa, cha-cha-cha, mambo, cumbia, reggaeton, hip-hop and others. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 145B — Dance Fitness: Intermediate
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Incorporates cardiovascular exercise, muscular endurance, balance and flexibility. Students review beginning movements and learn intermediate movements from a variety of music and dance rhythms including, but not limited to, merengue, salsa, cha-cha-cha, mambo, cumbia, reggaeton, hip-hop and others. Class format involves continuous dancing and interval training for cardiovascular health. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 146 — Stretching and Relaxation
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Designed to enhance overall wellness regarding body flexibility, injury prevention and stress reduction for all adults, including athletes and non-athletes. Stretching
techniques and applications regarding active lifestyles, sports and stress management are emphasized. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

**PE 148A — Beginning Walking/Jogging for Fitness**
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Co-educational course which provides instruction to develop cardiovascular fitness and flexibility through an individualized walking/jogging program. Emphasizes safe and effective techniques for all fitness levels. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

**PE 148B — Intermediate Walking/Jogging for Fitness**
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Co-educational course providing instruction for developing cardiovascular fitness and flexibility through an individualized walking/jogging program. Emphasizes safe and effective techniques for all fitness levels. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

**PE 168 — Women’s Fitness and Weight Training**
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
For women who wish to learn a new activity or who possess insufficient health or conditioning. Instruction develops applications of basic cardiovascular fitness conditioning and establishes the rudiments of muscle strength, endurance and flexibility. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

**PE 176A — Beginning Fitness Yoga**
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Instruction and practice in the fundamentals of yoga-based poses designed to enhance strength, flexibility, balance and focus. Emphasis on safety, proper body alignment, improved posture and developing breathing techniques that encourage the mind-body connection and relaxation response. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

**PE 176B — Intermediate Fitness Yoga**
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Continued instruction and practice in intermediate-based yoga poses designed to enhance strength, flexibility, balance and focus. Emphasis on safety, proper body alignment, improved posture and developing breathing techniques that encourage mind-body integration and relaxation response. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

**PE 226 — Running for Conditioning**
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Designed for beginning, intermediate and advanced-level individuals who seek more specific and advanced training techniques. Covers training theory in distance running, specific strength training for runners, nutrition for endurance training and bio-mechanical analysis for running efficiency. Training volume and intensity depend on individual's current fitness level. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

**Life Fitness**
All Life Fitness courses are 36 hours per semester, except PE 179, which is 18 hours per semester.

**PE 149 — Life Fitness**
(1) — CSU, UC*
Hours: 36 (9 lecture, 27 lab)
Open-entry/open-exit course designed to increase cardiovascular endurance, strength and flexibility, utilizing state-of-the-art equipment. Provides knowledge of basic fitness concepts and skills to develop an individualized workout based upon the student's goals. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)
PE 166 — Life Fitness — Strength Training
(1) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 36 (9 lecture, 27 lab)
Designed to increase muscular strength and endurance, utilizing plate-loaded apparatus, free weights, selectorized weight machines, and weighted cables. Required orientation includes course objectives and requirements, rules and regulations, and safety procedures. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 169 — Life Fitness — Weight Training for Power
(1) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 36 (9 lecture, 27 lab)
Open-entry/open-exit course designed to increase muscular strength, endurance and power utilizing free weights and Olympic lifting techniques. Required orientation includes course objectives and requirements, rules and regulations, and safety procedures. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 177 — Life Fitness — Weight Management
(1) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 36 (9 lecture, 27 lab)
Weight management concepts, using a combination of dietary planning and exercise in the Life Fitness Center. Students must attend a one-hour weekly meeting to meet the requirements of the nutritional program. Required orientation includes course objectives and requirements, rules and regulations, and safety procedures. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 179 — Life Fitness — Super Circuit Training
(0.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 18 (4.5 lecture, 13.5 lab)
Instruction in the development of cardiovascular endurance, muscular endurance and flexibility, using selectorized weight equipment in combination with stationary bicycles. Required orientation includes course objectives and requirements, rules, regulations and safety procedures. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 195 — Life Fitness — Functional Fitness Training
(0.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 18 (4.5 lecture, 13.5 lab)
Instruction in exercise techniques aimed at enhancing functional performance in daily activities, general exercise and athletics. Emphasizes the development of joint stabilizer strength, balance, core (abdominal) strength and efficiency of movement, using a variety of strength and balance training equipment. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 196 — Myofascial Release Techniques in Exercise
(0.5) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 18 (4.5 lecture, 13.5 lab)
Introduction to the incorporation of self-myofascial release (self-massage) techniques in exercise. Learning to utilize various equipment to manipulate soft tissue for injury prevention, rehabilitation, pain reduction and sport performance.

PE 277A — Beginning Fitness for ESL Students
(1) — CSU
Hours: 36 (9 lecture, 27 lab)
First course in a series of classes designed to introduce ESL students to the fundamentals of physical fitness training, nutrition, and health education. A one-hour weekly meeting is required. Exercise sessions are performed in an open-lab format in the Life Fitness Center. Proper use of equipment and basic fitness concepts are emphasized.

PE 277B — Intermediate Fitness for ESL Students
(1) — CSU
Hours: 36 (9 lecture, 27 lab)
Second course in a series of classes designed to introduce ESL students to the fundamentals of physical fitness training, nutrition, and health education. A one-hour weekly meeting is required. Exercise sessions are performed in an open-lab format in the Life Fitness Center. Proper use of equipment and basic fitness concepts are emphasized.
Fitness Center. Low back care, muscular strength and endurance are emphasized.

Dance
1. Provides instruction in fundamental skills in dance, and control in poise, and movement in line, rhythm and design.
2. Provides opportunities for students to develop creativity, kinesthetic awareness and rhythmic development through dance movement.
3. Explores dance as an art form.

These activities are based on three levels of progressive instruction—Beginning, Intermediate and Advanced:
- **Beginning**: This level explores the basic fundamentals of dance concepts and movements.
- **Intermediate**: Continuation of increased proficiency in the combination of movements. Emphasizes the significance of dance as an art form.
- **Advanced**: Provides an opportunity for the student to exhibit creative and individualistic expression in the dance form. Instruction will be directed toward the high achievement of excellence and creativity.

All Beginning, Intermediate and Advanced activities classes are 0.9 hours lecture and 2.33 hours lab weekly unless otherwise indicated.

**PE 150A — Beginning Ballet**  
(1.5) — CSU, UC  
Skills Advisories: Eligibility for ENG 98 and 103  
Course Advisory: PE 150A  
Hours: 54 (12.6 lecture, 41.4 lab)  
Dance course focusing on the fundamentals of classical and contemporary ballet. Through active participation, the student experiences ballet technique and vocabulary, along with developing a higher understanding of the important historical contribution ballet has made to western theatrical dance. No dance experience required.

**PE 150B — Intermediate Ballet**  
(1.5) — CSU, UC  
Skills Advisories: Eligibility for ENG 98 and 103  
Course Advisory: PE 150A  
Hours: 54 (12.6 lecture, 41.4 lab)  
Focuses on fundamentals for the intermediate student in both classical and contemporary ballet. Through active participation, students experience ballet technique and vocabulary, along with developing a higher understanding about important historical contributions ballet has made to western theatrical dance. Successful completion of Beginning Ballet required.

**PE 150C — Advanced Ballet**  
(1.5) — CSU, UC  
Skills Advisories: Eligibility for ENG 98 and 103  
Course Advisories: PE 150B  
Hours: 54 (12.6 lecture, 41.4 lab)  
Explores the basic fundamentals of advanced ballet dance concepts and movement, fundamental theory, and practice of ballet techniques. Emphasis on placement, correct body alignment, muscular control and a development of ballet positions and steps. Successful completion of Intermediate Ballet required.

**PE 151A — Jazz Dance**  
(1.5) — CSU, UC  
Skills Advisories: Eligibility for ENG 98 and 103  
Course Advisories: PE 150A  
Hours: 54 (12.6 lecture, 41.4 lab)  
Focuses on fundamentals of jazz dance, including theatrical, film/video and contemporary dance styles. Through active participation, the student experiences a universal jazz dance vocabulary that emphasizes rhythmical movement patterns, coordination and presentation skills. No dance experience required.

**PE 151B — Jazz Dance**  
(1.5) — CSU, UC  
Skills Advisories: Eligibility for ENG 98 and 103  
Course Advisories: PE 150A  
Hours: 54 (12.6 lecture, 41.4 lab)  
Focuses on fundamentals of jazz dance, including theatrical, film/video and contemporary dance styles. Through active participation, the student experiences a universal jazz dance vocabulary that emphasizes rhythmical movement patterns, coordination and presentation skills. No dance experience required.

**PE 151C — Jazz Dance**  
(1.5) — CSU, UC  
Skills Advisories: Eligibility for ENG 98 and 103  
Course Advisories: PE 150A  
Hours: 54 (12.6 lecture, 41.4 lab)  
Focuses on fundamentals of jazz dance, including theatrical, film/video and contemporary dance styles. Through active participation, the student experiences a universal jazz dance vocabulary that emphasizes rhythmical movement patterns, coordination and presentation skills. No dance experience required.
PE 152A — Modern Dance
(1.5) — CSU, UC
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Focuses on the fundamentals of modern dance technique. Through active participation, students experience diverse historical and contemporary modern dance styles, develop kinesthetic awareness, and integrate development of technique with creative self-expression. No dance experience necessary for beginning course only.

PE 152B — Modern Dance
(1.5) — CSU, UC
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Focuses on the fundamentals of modern dance technique. Through active participation, students experience diverse historical and contemporary modern dance styles, develop kinesthetic awareness, and integrate development of technique with creative self-expression. No dance experience necessary for beginning course only.

PE 152C — Modern Dance
(1.5) — CSU, UC
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Focuses on the fundamentals of modern dance technique. Through active participation, students experience diverse historical and contemporary modern dance styles, develop kinesthetic awareness, and integrate development of technique with creative self-expression. No dance experience necessary for beginning course only.

PE 153 — Dance Concert
(1.5) — CSU, UC
Skills Advisories: Eligibility for ENG 98 and 103
Limitation on Enrollment: Audition for course
Hours: 54 (12.6 lecture, 41.4 lab)
Faculty-directed and supervised dance concert(s). Students experience artistic and educational public performances at traditional and non-traditional performance sites. Students are involved in production process: costuming, fund-raising, public relations and research. Students must be enrolled and regularly attend a dance technique course, and audition to be selected to participate in this course.

PE 154A — Dance Ensemble
(2) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 108 lecture
The dance ensemble is for intermediate dancers who are serious about performing. Students learn a varied and challenging repertoire that stretches them technically and artistically. They participate in the creation of new work, resetting of work by faculty and guest choreographers and performing in and around the Santa Barbara area.

PE 156 — Beginning Social Ballroom Dance
(1.5) — CSU, UC
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Introduces students to the fundamentals of ballroom dance, with detailed descriptions of the basic steps which, in turn, systematically build to attractive dance combinations. Also covers American and Latin American dances, including styling, dance position holds, leading and following techniques.

PE 167A — Exploration of Dance
(1.5) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Explores the fundamentals of dance and movement. Students experience the disciplines of ballet, modern, jazz, improvisation, stretch, relaxation, Pilates and yoga. Emphasis on body alignment, strength/flexibility, wellness and the importance of cross-training for dancers. Students create quality movement and artistry in dance.

PE 167B — Intermediate Exploration of Dance
(1.5) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Explores dance and movement at an intermediate level. Students experience the disciplines of contemporary, modern and jazz dance. Emphasis on body alignment, strength/flexibility and creative movement.

PE 250 — Survey and Appreciation of Dance History
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 lecture
Introduction to the history and appreciation of dance. Survey of dance history, from the beginning of time to the present, with an emphasis upon development as an art form cross-culturally. Emphasis on sociological, cultural, historical contexts within different societies. Development of contemporary art forms of dance, within the 20th and 21st centuries, is explored.

**PE 252 — Fundamentals of Choreography**
(2) — CSU, UC  
*Skills Advisories: Eligibility for ENG 98 and 103*  
*Course Advisories: PE 152*  
*Hours: 54 (27 lecture, 27 lab)*

Introduction to the choreographic process. Movement studies to acquire experiences and knowledge of compositional techniques. Individual and group creativity stressed, along with the ability to articulate esthetic distinctions. Special emphasis on movement experimentation, invention and development. Includes discussion and appraisal of students, as well as concept development.

**PE 253/FP 253 — Experimental Filmmaking and Dance**  
(3) — CSU  
*Corequisites: FP 170 or PE 252*  
*Skills Advisories: Eligibility for ENG 98 and 103*  
*Hours: 90 (36 lecture, 54 lab)*

Issues and practices in creating dance for camera, emerging technologies and new genre filmmaking. Students collaborate to create their own dance compositions, and use experimental film and lighting techniques to make short dance films.

**PE 260 — Dance Improvisation**  
(1.5) — CSU, UC  
*Skills Advisories: Eligibility for ENG 98 and 103*  
*Course Advisories: PE 152A*  
*Hours: 54 (12.6 lecture, 41.4 lab)*

Introduction to creative exploration in movement through guided exercises and experiences that enrich one’s personal movement vocabulary. Students learn to access and develop their active imagination and enhance their focus and concentration abilities. Students develop kinesthetic awareness, individual/group sensitivities, and discover the process used in creating and inventing movement.

### Combatives

Provide instruction in a combative area which would facilitate self-defense, stress-coping mechanisms, basic movement skills and fitness.  

**All activities under this category are coed.**  

These activities are based on three levels of progressive instruction—Beginning, Intermediate and Advanced:  

- **Beginning**: For students who wish to learn a new activity or who possess insufficient skills in a particular activity. Introductory instruction that explores the activity’s history, rules, etiquette, strategy, equipment and elementary skills.

- **Intermediate**: For students who already possess the rudimentary skills and abilities for the activity and who wish to improve those skills. This level provides for a greater opportunity in student competition and performance. An increased emphasis is placed on the execution of skills and proficiencies.

- **Advanced**: For the skilled performer who seeks to improve to the best of his/her ability. This level prepares the student for highly intensive performance levels. Instruction accentuates competition and advanced strategies. A higher level of accomplishment is stressed.

*All Beginning, Intermediate and Advanced activities classes are 0.9 hours lecture and 2.33 hours lab weekly except where indicated.*  

**PE 162A — Beginning Karate**  
(1.5) — CSU, UC*  
*Skills Advisories: Eligibility for ENG 98 and 103*  
*Hours: 54 (12.6 lecture, 41.4 lab)*

Critical analysis of the mental and physical principles of karate as a martial art. Training includes both “hard” and “soft” techniques, with emphasis on physical movements which synthesize the elements of speed, concentration, balance and timing.  

*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units*

**PE 162B — Intermediate Karate**  
(1.5) — CSU, UC*  
*Skills Advisories: Eligibility for ENG 98 and 103*  
*Hours: 54 (12.6 lecture, 41.4 lab)*

Critical analysis of the mental and physical principles of karate as a martial art. Training includes both “hard”
and “soft” techniques, with emphasis on physical movements which synthesize the elements of speed, concentration, balance and timing. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

**PE 163 — Beginning Self-Defense**  
(1.5) — CSU, UC*  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 54 (12.6 lecture, 41.4 lab)

Presentation and critical analysis of the basic movements used in personal defense that can be learned by anyone of average physical ability. Designed to allow students an opportunity to develop and practice personal self-defense skills, without directly engaging in the martial arts. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

**PE 164 — Self-Defense: Women**  
(1) — CSU, UC*  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 36 (9 lecture, 27 lab)

Designed for men and women who are interested in gaining knowledge in simple but effective self-defense techniques. Also examines rape, wife and child abuse, and other cultural influences that require the necessity for this course. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

### Intercollegiate Athletics

Santa Barbara City College offers a wide range of intercollegiate athletic activities. These are designed for men and women who exhibit a high skill level in various sports and who can compete at the collegiate level. While completing course work in a wide range of academic fields, those involved in athletics are also devoting much time and energy to their individual sports through practice and skill development. For some individuals, the skills they exhibit at SBCC will lead to a furthering of their education and athletic abilities at a four-year institution.

They provide opportunities for men and women to receive advanced level instruction and training in skills, techniques, strategies and leadership, and to:

1. Provide instruction and opportunities for students to develop desirable human relationships and social expression through interaction with opponents, teammates, instructors, officials and companions.

### Limitation of Enrollment for All Athletics Classes, PE 180-194 and 199

Selection to enroll by permission of instructor. Students must have a physical exam prior to participation in class. All activities under this category are coed unless specifically designated. And all have skills advisories of eligibility for ENG 98 and 103

**PE 180 ABC — Intercollegiate Baseball - Men**  
(1-3) — CSU, UC*  
Hours: 54-160 lab  
(*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

**PE 181 ABC — Intercollegiate Basketball - Women**  
(1-3) — CSU, UC*  
Hours: 54-160 lab  
(*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

**PE 182 ABC — Intercollegiate Basketball - Men**  
(1-3) — CSU, UC*  
Hours: 54-160 lab  
(*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

**PE 183 ABC — Intercollegiate Cross Country for Men and Women**  
(1-3) — CSU, UC*  
Hours: 54-160 lab  
(*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

**PE 184 ABC — Intercollegiate Football - Men**  
(1-3) — CSU, UC*  
Hours: 54-160 lab  
(*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)
PE 185 ABC — Intercollegiate Golf
(1-3) — CSU, UC*
Hours: 54-160 lab

(*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 186 ABC — Intercollegiate Tennis - Women
(1-3) — CSU, UC*
Hours: 54-160 lab

(*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 187 A — Intercollegiate Tennis - Men
(3) — CSU
Hours: 160-175 lab

PE 188 ABC — Intercollegiate Track and Field - Women
(1-3) — CSU, UC*
Hours: 54-160 lab

(*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 189 ABC — Intercollegiate Track and Field - Men
(1-3) — CSU, UC*
Hours: 54-160 lab

(*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 190 ABC — Intercollegiate Volleyball - Women
(1-3) — CSU, UC*
Hours: 54-160 lab

(*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 191 ABC — Intercollegiate Volleyball - Men
(1-3) — CSU, UC*
Hours: 54-160 lab

(*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 192 ABC — Intercollegiate Soccer - Women
(1-3) — CSU, UC*
Hours: 54-160 lab

(*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 193 ABC — Intercollegiate Soccer - Men
(1-3) — CSU, UC*
Hours: 54-160 lab

(*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 194 ABC — Intercollegiate Softball - Women
(1-3) — CSU, UC*
Hours: 51-162 lab

(*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 197 A — Intercollegiate Swimming - Women
(3) — CSU, UC*
Hours: 175 lab

Provides opportunities for women to receive advanced-level instruction and training in the sport of swimming. In addition to competition, students are guided to positive peer relationships, creating a healthy team dynamic. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 198 A — Intercollegiate Water Polo - Women
(3) — CSU, UC*
Hours: 175 lab

Provides opportunities for women to receive advanced-level instruction and training in the sport of water polo. In addition to competition, students are guided to positive peer relationships, creating a healthy team dynamic. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 199 ABC — Intercollegiate Cheer/Dance Team
(1-3) — CSU, UC*
Hours: 54-160 lab

(*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 180-194 and 199:
Open for enrollment from the first to 12th week of the semester on an open-entry/open-exit basis:

A — 3 units (160 hours)
B — 2 units (106 hours)
C — 1 unit (54 hours)
Pre-Season Intercollegiate Athletics Courses

PE 110 — Advanced Baseball Techniques and Conditioning
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Designed for potential intercollegiate baseball participants. Includes aerobic and anaerobic conditioning, plyometrics, sport-specific strength training, and flexibility. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 128 — Advanced Football Techniques
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Advanced skills and techniques of football are presented. Emphasizes rules, theory, advanced strategy and teamwork, and philosophy of intercollegiate football. Practical application of various physical training methods. (*UC Transfer Limit: PE 128, 200, and 218: any or all of these courses combined: maximum credit, 8 units)

PE 147A — Conditioning for Intercollegiate Athletes
(0.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 16-64 (6-24 lecture, 10-40 lab)
Designed to prepare potential athletes for intercollegiate competition. Presents a combination of aerobic conditioning, weight training, cross-training and skill activities to prepare the athlete both mentally and physically. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 147B — Conditioning for Intercollegiate Athletes
(1) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 16-64 (6-24 lecture, 10-40 lab)
Designed to prepare potential athletes for intercollegiate competition. Presents a combination of aerobic conditioning, weight training, cross-training and skill activities to prepare the athlete both mentally and physically. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 147C — Conditioning for Intercollegiate Athletes
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 16-64 (6-24 lecture, 10-40 lab)
Designed to prepare potential athletes for intercollegiate competition. Presents a combination of aerobic conditioning, weight training, cross-training and skill activities to prepare the athlete both mentally and physically. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 147D — Conditioning for Intercollegiate Athletes
(2) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 16-64 (6-24 lecture, 10-40 lab)
Designed to prepare potential athletes for intercollegiate competition. Presents a combination of aerobic conditioning, weight training, cross-training and skill activities to prepare the athlete both mentally and physically. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 157 — Advanced Football Conditioning and Techniques
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Designed for athletes to become physically prepared for intercollegiate football competition. Utilizes a combination of anaerobic conditioning, speed development, strength training, plyometrics training and sport-specific skill development. Emphasizes rules, theory, advanced strategy and teamwork, philosophy and practical application of physical training methods. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)
PE 221 — Advanced Soccer Techniques: Women
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Provides opportunities for women to receive advanced soccer instruction and training in skills, techniques, strategies and leadership. Develops desirable human relationships and social expression through interaction with teammates, instructors and officials. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 222 — Advanced Soccer Techniques: Men
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Provides opportunities for men to receive advanced soccer instruction and training in skills, techniques, strategies and leadership. Develops desirable human relationships and social expression through interaction with teammates, instructors and officials. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 247 — Intercollegiate Sports Development
(.3) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 12 (5 lecture, 7 lab)
Designed to prepare potential athletes in aspects of physical and cognitive sports development. Two facets include (A) dissemination of information regarding drugs, alcohol, tobacco and sexual assault, concussion and brain injury, CCCAA and NCAA eligibility, physical and FMS screening; and (B) presentation of general sports fitness, sports specific training, tactical and fundamental skill activities.

PE 269 — Strength and Conditioning for Athletes
(1) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Designed to teach the fundamentals of general and sport-specific conditioning to increase muscular strength, endurance, and power utilizing weights and Olympic lifting techniques. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 281 — Pre-Season Intercollegiate Basketball - Women
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Designed to enhance the skills, techniques and strategies of intercollegiate level women’s basketball players. Emphasis is placed on the mental, physical and tactical aspects of the game in order to compete successfully at the collegiate level. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 282 — Pre-Season Intercollegiate Basketball - Men
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Designed to enhance the skills, techniques and strategies of intercollegiate-level men’s basketball players. Emphasis is placed on the mental, physical and tactical aspects of the game in order to compete successfully at the collegiate level. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 284 — Pre-Season Intercollegiate Football
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Focus on skills and technique development. Offensive and defensive schemes are taught and developed. Strength conditioning is also emphasized, with a concentration on core strength, speed and explosive movements. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

PE 288 — Pre-Season Inter-Collegiate Track and Field
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)
Track and field provides instruction and practice in the fundamentals, skills and techniques of all track and field events. Provides a conditioning program involving event-specific running and event-specific techniques and drills. (*UC Transfer Limit: All PE activity courses
combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

**PE 293 — Pre-Season Intercollegiate Volleyball - Men**
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)

Designed to enhance the skills, techniques and strategies of intercollegiate-level men’s volleyball players. Emphasis is placed on the mental, physical and tactical aspects of the game in order to compete successfully at the collegiate level. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

**PE 294 — Pre-Season Intercollegiate Softball**
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)

Designed to instruct individuals on the skills, techniques and principles of women’s intercollegiate-level softball players. Emphasis is placed on mental, physical, and tactical aspects of the game in order to compete successfully at the collegiate level. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

**PE 297 — Pre-Season Intercollegiate Swimming - Women**
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)

Conditioning and swimming technique for women’s swimming. Specifically designed for the highly skilled swimmer who is seeking competition in the sport of swimming. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

**PE 298 — Pre-Season Intercollegiate Water Polo - Women**
(1.5) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (12.6 lecture, 41.4 lab)

Instruction, skills technique and strategies for women’s water polo. Emphasis is placed on conditioning, tactics and skill fundamentals to compete at the intercollegiate level. (*UC Transfer Limit: All PE activity courses combined with HE 108, 213 and MDT 105: maximum credit, 4 units)

**Theory and Professional Preparation**

The Physical Education major presents the student with more career opportunities than ever before. In addition to the traditional areas of teaching, coaching, recreation and dance, Physical Education majors are finding that the disciplines of physical therapy, athletic training, rehabilitation services, exercise specialties and fitness are more and more in demand. In addition, as preventive health care becomes more prevalent, the physical educator should find an even wider range of opportunities.

**PE 200 — Introduction to Kinesiology**
(3) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 lecture

Introductory course to the field of physical education/kinesiology (study of human movement). Trends and sub-disciplines are examined. Career opportunities in the teaching, coaching and fitness professions. (*UC Transfer Limit: PE 128, 200, and 218: any or all of these courses combined: maximum credit, 8 units)

**PE 201 — Coaching Youth Football**
(1.3) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 36 (18 lecture, 18 lab)

Designed to aid youth football coaches. Fundamentals of offense, defense and kicking game are covered, as well as the psychological and philosophical aspects of coordinating a safe youth program.

**PE 215 — Coaching Youth Softball**
(1) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 18 lecture

Lecture course on practical skill development designed to aid the youth softball coach. History, theory, psychological and philosophical aspects, and safety factors are covered.
PE 216 — Competition, Motivation and the Athlete
(1) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 18 lecture
Introduction to the psychological, motivational, competitive and physical dimensions of sport. Survey of the athlete and coach to facilitate optimal performance.

PE 217 — Movement Education in the Elementary School
(3) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 lecture
Designed for students who desire an elementary school teaching credential or those who are Physical Education majors. Introduction to psychomotor development skills and teaching methodologies necessary to develop and teach elementary school physical education. Cultural and historical perspectives, as well as self-image and personal development skills, included.

PE 218 — Introduction to Coaching/Teaching
(3) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 lecture
Introduction to the field of coaching/teaching. History, present status and future trends of coaching. Career options in the profession of coaching are explored. (*UC Transfer Limit: PE 128, 200 and 218: any or all of these courses combined: maximum credit, 8 units)

PE 223 — Coaching Youth Soccer
(1.3) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 36 (18 lecture, 18 lab)
Lecture and lab course on practical skill development to aid youth soccer coach. Theory, psychological and philosophical aspects, safety and prevention of injuries are covered. National Soccer Coaches of America Association Advanced Regional Diploma awarded upon successful completion.

PE 228 — Sport Video Technology
(3) — CSU
Skills Advisories: ENG 98 and 103
Hours: 54 lecture
Introduction to sport video and digital technology. Students learn how new technology is applied to sports (basketball, baseball, football, soccer, volleyball). Hands-on training with sport software and technology.

PE 290 — Work Experience in Physical Education/Health Education
(1-4) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 60-300 lab
Work/learning experience which provides the student an opportunity to evaluate various career opportunities within the physical education/recreation field and to apply classroom learning to field experience. Students receive credit for paid and/or volunteer work. Individual learning objectives implemented each semester.

PE 295 — Internship in Physical Education/Health Education
(2-4) — CSU
Limitation on Enrollment: Completion of two courses in the Physical Education department at SBCC prior to enrolling in an internship course.
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 108-273 lab
Structured internship program in which students gain experience with community organizations and/or college programs related to the discipline.

Recreation Education
REC 215 — Outdoor Education
(2.3) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 (36 lecture, 18 lab)
Basic fundamentals of hiking, mountain biking, camping, outdoor recreation equipment and backpacking. Students study plants and animals, history, geography and environmental issues of the local area. Specific attention given to the Channel Islands. Various field trips include different outdoor activities and educational opportunities.
Physics

Degrees
Associate in Arts/Science Degree: Physics
Associate in Science Degree (AS-T): Physics for Transfer

Program Description
Physics is the foundation discipline which must be incorporated into the education of anyone preparing for a career in engineering or science. It is equally true for the non-scientist having the responsibility to make meaningful decisions in society—the citizen in politics, the business person or social scientist who deals with problems of a society strongly linked to technology based on application of physical principles. A truly educated person preparing for life in the 21st century can hardly afford not to be aware of the statements of contemporary physics.

The Physics Department, in addition to offering courses for the major, provides a support service in offering Physics courses satisfying the needs of other disciplines.

There is a three-semester, calculus-based sequence (PHYS 121, 122, 123) for the student in Engineering, Physics and other physical sciences. The department also offers the Excellence in Mathematics, Sciences and Engineering (EMSE) workshop program (PHYS 121W, 122W, and 123W) to assist students in calculus-based Physics courses.

For the Biological Sciences student, both a two-semester trigonometry-level Physics sequence (PHYS 105 and 106) and a two-semester calculus-level Physics sequence (PHYS 110 and 111) are offered.

PHYS 102 satisfies the needs of those requiring an introduction to physics prior to entering the Engineering/Physics sequence.

For those fulfilling a General Education science requirement, a one-semester general survey Physics course (PHYS 101 and 101L) is offered.

To satisfy the needs of the Liberal Studies major, the Physics Department offers a non-mathematical one-semester Physical Science course (Physical Science 103) which covers the physical basis of a number of disciplines—Physics, Chemistry, Astronomy, Geology and Meteorology.

The department offers an AS-T Degree in Physics for Transfer. This degree provides the foundational knowledge in physics to students who want to earn a Baccalaureate Degree in Physics. This degree is in compliance with the Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code Sections 66746-66749) and guarantees admission to a California State University (CSU) campus for any community college student who completes an “associate degree for transfer,” a newly established variation of the associate degrees traditionally offered at a California community college. Upon completion of the transfer associate degree, the student is eligible for transfer with junior standing into the California State University (CSU) system. Students will be given priority consideration when applying to a particular program that is similar to the student’s community college area of emphasis. For more information on transfer degrees, visit www.sb1440.org.

Student Learning Outcomes
1. Demonstrate proficiency, both conceptually and mathematically with calculus, in solving static and dynamic mechanical problems involving both solids and fluids.
2. Demonstrate proficiency, both conceptually and mathematically with calculus, in solving mechanical wave problems.
3. Demonstrate proficiency, both conceptually and mathematically with calculus, in solving thermodynamic problems.
4. Demonstrate proficiency, both conceptually and mathematically with calculus, in solving electric, magnetic and electromagnetic problems.
5. Demonstrate proficiency, both conceptually and mathematically with calculus, in solving ray and wave optics problems.
6. Demonstrate proficiency, both conceptually and mathematically with calculus, in solving modern physics problems.
7. Demonstrate proficiency in construction and assembly of experimental apparatuses; conduct and analyze measurements of physical phenomena; assess experimental uncertainty; make meaningful comparisons between experiment and theory; and interpret results.

Faculty and Offices
Michael Young, Chair (PS-119, ext. 2697)
Nick Arnold (PS-118, ext. 4253)
Doug Folsom (PS-115, ext. 4305)
Amy Thompson
Don Ion, Laboratory Technician (PS-120, ext. 2312)
Marilynn Spaventa, Dean
Department information is also available on the Internet at http://science.sbcc.edu/physics/ and www.sbcc.edu/physics.

AA/AS Degree: Physics

Department Requirements (50-51 units)

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<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tr>
<td>CHEM 155</td>
<td>General Chemistry I</td>
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<tr>
<td>CHEM 156</td>
<td>General Chemistry II</td>
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<tr>
<td>MATH 150</td>
<td>Calculus with Analytic Geometry I</td>
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<td>MATH 160</td>
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<td>Linear Algebra</td>
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<td>*MATH 220</td>
<td>Differential Equations</td>
<td>4</td>
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<td>PHYS 121</td>
<td>Mechanics of Solids and Fluids</td>
<td>5</td>
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<tr>
<td>PHYS 122</td>
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<tr>
<td>PHYS 123</td>
<td>Heat, Light and Modern Physics</td>
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Plus one of the following

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<td>CS 105</td>
<td>Theory and Practice I or</td>
<td>3</td>
</tr>
<tr>
<td>CS 107</td>
<td>Computer Architecture and Organization or</td>
<td>3</td>
</tr>
<tr>
<td>CS 137</td>
<td>C Programming</td>
<td>3</td>
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<tr>
<td>CS 140</td>
<td>Object-Oriented Programming Using C++</td>
<td>4</td>
</tr>
<tr>
<td>*MATH 250 and 260</td>
<td>will also satisfy MATH 200 and 210 and 220 requirements.</td>
<td></td>
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</table>

College Requirements

For complete information, see “Graduation Requirements” in the Catalog Index.

Planning a Program of Study

Students should work with Santa Barbara City College’s counseling staff in planning semester-by-semester programs of study. Important conditions to be met by students majoring in the Physical Sciences include:

1. The number of units taken each semester is a matter of personal choice. Students who work full-time should take a reduced course load.
2. Many required courses are in sequences—which must be taken in the prescribed order (e.g., MATH 150, 160, 200/210 and 220), hence schedule courses in the major first and schedule IGETC courses second. See www.assist.org for help.
3. Some courses are prerequisites for courses in the sequences (e.g., MATH 150 is a prerequisite for PHYS 121).
4. PHYS 122 is only taught in the Fall Semester and PHYS 123 is only taught in the Spring Semester.
5. PHYS 123 may be taken before PHYS 122.
6. PHYS 121 should be taken with MATH 160 and PHYS 122/123 should be taken with MATH 200/210/220 else there may be a scheduling time conflict.

Some sequences are especially important for the sciences. The sciences do require reading, writing and mathematical skills. Science textbooks are typically at a grade 13-14 reading level. Students deficient in such skills have a unique opportunity at Santa Barbara City College to quickly and efficiently reach the levels required in the majors programs through the following sequences:

**English Sequence**

1. Passing score on placement exam (to) ENG 110 (to) 111; or
2. English Skills (to) ENG 98 (to) 110 (to) 111.

**Mathematics Sequence**

1. MATH 95 (to) 111 (to) 137 (to) 138 (to) 150, 160, 200/210, 220; or
2. High school algebra and trigonometry, plus passing score on placement exam (to) MATH 150, 160, 200/210, 220.

Special Note: If you have not been tested for appropriate course placement in respect to the aforementioned sequences, contact the Counseling Center for up-to-date pre-enrollment testing schedule information. You should make sure that you have the necessary skills for each class taken—in order to succeed and/or progress in your chosen major.

**Chemistry Sequence**

CHEM 101 or high school chemistry (to) 155 (to) 156.

**Physics Sequence**

PHYS 102 or high school physics with trigonometry (to) 121 (to) 122 or 123 (to) 123 or 122. Note: PHYS 123 may be taken before PHYS 122. PHYS 102 and 121 are offered every semester, but PHYS 122 and 123 are only offered once a year.

**Preparation for Transfer**

Course requirements for transfer vary depending upon the college or university a student wishes to attend.
Therefore, it is most important for a student to consult with his/her counselor, departmental adviser and www.assist.org before planning an academic program for transfer.

Requirements for AS-T Degree—
Physics for Transfer

Physics covers a wide range of topics. The major is designed to give students exposure to basic information in the discipline and provide the opportunity to focus on the areas that best suit their individual needs. Students should consult with a departmental adviser and/or counselor when choosing both controlled and general electives in order to develop a program of study that is best suited to their specific needs. For example, requirements for the Baccalaureate Degree in Physics vary from one institution to another. It is, therefore, essential to become familiar with the requirements of the institution a student plans to attend.

The Associate in Science Degree in Physics for Transfer will provide the foundational knowledge to students who want to earn a Baccalaureate Degree in Physics at any of the CSU campuses (see www.assist.org for transfer to UC/CSU).

Degree Requirements

Complete 60 CSU-transferable units including general education, major requirements and CSU-transferable electives as follows:

I. General Education

Complete the following pattern

- Intersegmental General Education Transfer Curriculum “IGETC” for CSU (37 semester units)

II. Major

Complete 29 units as outlined below with a “C” or better in each course. Pass/No Pass grading is not permitted in a course within a student’s major area of study. The courses completed for the major may also be used to fulfill general education areas on the IGETC.

MATH 150* — Calculus with Analytic Geometry I ...................5
MATH 160* — Calculus with Analytic Geometry II ..................5
MATH 200* — Multivariable Calculus .................................4
PHYS 121* — Mechanics of Solids and Fluids .....................5
PHYS 122* — Electricity and Magnetism .............................5
PHYS 123* — Heat, Light and Modern Physics .....................5

*These courses fulfill an IGETC requirement. Visit www.assist.org or http://articulation.sbcc.edu for a complete list of IGETC requirements.

III. CSU-Transferable Electives

Complete as many units as needed to reach a total of 60 CSU-transferable units (for a list of SBCC-transferable courses to CSU, visit www.assist.org).

Additional Graduation Requirements for AS-T in Physics:

- Maintain a cumulative CSU-transferable GPA of 2.0.
- Residency Requirements: Candidates for an Associate Degree are expected to complete 15 semester units in residence at SBCC. Candidates for an Associate Degree are also expected to complete at least 20% of the department major requirements in residence at SBCC.

Honors and Awards

Outstanding Student Award

The Physics Department selects one student each year as Outstanding Student. The selection is made by faculty in the department. Selections are based solely on academic excellence and no applications by students are required.

Joseph P. Cosand Award

The Joseph P. Cosand Award is granted to a student who has demonstrated excellence in at least two of the Physical Sciences and in Mathematics. Annually, the Physics, Chemistry and Geology faculty nominate outstanding candidates for this prestigious award. Selection is determined by a consensus of the three physical science departments, with the concurrence of the Mathematics Department.

Physical Science Courses

PHSC 103 — The Physical Universe
(4) — CSU, UC*

Skills Advisories: MATH 1 and eligibility for ENG 98
Hours: 108 (54 lecture, 54 lab)

Conceptual non-mathematical introduction to the physical sciences. Topics of current interest from
astronomy, physics, chemistry, geology, weather and the environment. Practical illustrations taken from art, music, sports, the home. Recommended for all non-science majors. Satisfies General Education laboratory science requirement. (*UC Transfer Limit: no credit for PHSC 103 if taken after a college level course in astronomy, chemistry, geology or physics)

PHSC 107 — Nanoscience in Society
(4) — CSU, UC
Skills Advisories: Proficiency in MATH 95 and Eligibility for ENG 110 or 110GB or 110H
Hours: 108 (54 lecture, 54 lab)
Interdisciplinary physical sciences course that uses the fundamental principles of science to examine nanoscience, nanotechnology, and the societal impact of these emerging technologies on our lives and environment. Topics of interest include development and global sustainability, nanotechnology and personal responsibility, developing a green future, the pros and cons of emerging nanotechnologies, and energy.

Physics Courses

PHYS 101 — Conceptual Physics
(3) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and proficiency in MATH 1
Hours: 54 lecture
Concept-oriented non-mathematical course in general physics. Topics include motion, heat, sound, light, electricity and modern physics. Special emphasis on everyday experience, with practical illustrations taken from art, music, sports, the home. (*UC Transfer Limit: PHYS 101, 101L and 102 combined: maximum credit, 4 units; no credit for PHYS 101 or 102 if taken after 105; PHYS 101 and 101H combined: maximum credit, one course)

PHYS 101L — Conceptual Physics Lab
(1) — CSU, UC*
Corequisites: PHYS 101
Skills Advisories: MATH 95 and Eligibility for ENG 110 or 110H
Hours: 54 lab
Concept-oriented laboratory in general physics. Topics include motion, heat, sound, light, electricity and modern physics. Special emphasis on everyday experience, with practical illustrations taken from art, music, sports, the home. (*UC Transfer Limit: PHYS 101, 101L and 102 combined: maximum credit, 4 units)

PHYS 102 — Introductory Physics for Science Majors
(4) — CSU, UC*
Skills Advisories: Eligibility for ENG 110 or 110H; proficiency in MATH 104 or 107 or 111
Hours: 108 (54 lecture, 54 lab)
Introductory course, with quantitative applications and problem-solving introduced where appropriate, for students majoring in the physical sciences. Topics include meaning of physical law, vectors, Newton’s Laws of Motion (classical physics), work and energy, waves, electricity, magnetism, light, atomic and nuclear physics. Satisfies General Education laboratory science requirement. Also satisfies Physics prerequisite for PHYS 121. (*UC Transfer Limit; PHYS 101, 101L and 102 combined: maximum credit, 4 units; no credit for PHYS 101, or 102 if taken after 105)

PHYS 105 — General Physics
(4) — CSU, UC*
Prerequisites: MATH 120
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 108 (54 lecture, 54 lab)
Statics and dynamics of particles and rigid bodies. Newton’s Laws of Motion, conservation principles, rotational motion, simple harmonic motion, wave motion, heat and sound, introduction to hydrostatics and hydrodynamics. (*UC Transfer Limit; PHYS 105 and 106 or 110 and 111 or 121, 122 and 123 combined: maximum credit, one series)

PHYS 106 — General Physics
(4) — CSU, UC*
Prerequisites: PHYS 105 and MATH 107 or 111
Skills Advisories: Eligibility for ENG 110 or 110H; proficiency in MATH 120
Hours: 108 (54 lecture, 54 lab)
Electricity, magnetism, optics, relativity, atomic and nuclear physics. (*UC Transfer Limit; PHYS 105 and 106 or 110 and 111 or 121, 122 and 123 combined: maximum credit, one series)
PHYS 110 — Introductory Physics
(4) — CSU, UC*
Prerequisites: MATH 130 or 150
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 108 (54 lecture, 54 lab)
Statics and dynamics of particles and rigid bodies, Newton’s Laws of Motion, conservation principles, rotational motion, simple harmonic motion, wave motion, heat and sound, introduction to hydrostatics and hydrodynamics. (Appropriate for life science majors requiring calculus-level physics.) (*UC Transfer Limit; PHYS 105 and 106 or 110 and 111 or 121, 122 and 123 combined: maximum credit, one series)

PHYS 111 — Introductory Physics
(4) — CSU, UC*
Prerequisites: PHYS 110 and MATH 130 or 150
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 108 (54 lecture, 54 lab)
Electricity, magnetism, optics, relativity, atomic and nuclear physics. (Appropriate for life science majors requiring calculus-level physics.) (*UC Transfer Limit; PHYS 105 and 106 or 110 and 111 or 121, 122 and 123 combined: maximum credit, one series)

PHYS 121 — Mechanics of Solids and Fluids
(5) — CSU, UC*
Prerequisites: PHYS 102 with a minimum grade of “C” or trigonometry based High School Physics with a minimum grade of “C” and MATH 150
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 126 (72 lecture, 54 lab)
For Engineering and Physical Science students. Statics and dynamics of particles and rigid bodies, Newton’s Laws of Motion, conservation principles, rotational motion, introduction to hydrostatics and hydrodynamics. (*UC Transfer Limit; PHYS 105 and 106 or 110 and 111 or 121, 122 and 123 combined: maximum credit, one series)

PHYS 121W — Workshop For Physics 121
(1)
Corequisites: PHYS 121 (concurrent)
Hours: 54 lab
Excellence in Mathematics, Science and Engineering (EMSE) supplementary problem-solving workshop designed for PHYS 121.

PHYS 122 — Electricity and Magnetism
(5) — CSU, UC*
Prerequisites: PHYS 121 and MATH 160 with a minimum grade of “C”
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 126 (72 lecture, 54 lab)
For Engineering and Physical Science students. Electro-statics, Coulomb’s Law, Gauss’ Law, capacitors and dielectrics, DC circuits, Ohm’s Law, magnetism and electromagnetism, Ampere’s Law, Faraday’s Law, alternating current theory, electrical oscillators, electromagnetic radiation and electromagnetic waves. (*UC Transfer Limit; PHYS 105 and 106 or 110 and 111 or 121, 122 and 123 combined: maximum credit, one series)

PHYS 122W — Workshop for Physics 122
(1)
Corequisites: PHYS 122 (concurrent)
Hours: 54 lab
Excellence in Mathematics, Science and Engineering (EMSE) supplementary problem-solving workshop designed for PHYS 122.

PHYS 123 — Heat, Light and Modern Physics
(5) — CSU, UC*
Prerequisites: PHYS 121 with a “C” or better and MATH 160
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 126 (72 lecture, 54 lab)
For Engineering and Physical Science students. Mechanical waves, thermodynamic processes and systems, kinetic theory, light and modern physics. (*UC Transfer Limit; PHYS 105 and 106 or 110 and 111 or 121, 122 and 123 combined: maximum credit, one series)

PHYS 123W — Workshop for Physics 123
(1)
Corequisites: PHYS 123 (concurrent)
Hours: 54 lab
Excellence in Mathematics, Science and Engineering (EMSE) supplementary problem-solving workshop designed for PHYS 123.
Political Science and Economics

Degrees
Associate in Arts Degree: Political Science
Associate in Arts Degree (AA-T): Political Science for Transfer
Associate in Arts Degree: Economics
Associate in Arts Degree (AA-T): Economics for Transfer
Associate in Arts Degree: Global Studies
Associate in Arts Degree: Law and Society
Associate in Arts Degree: Law and Society—Emphasis in Criminal Justice
Associate in Arts Degree: Middle East Studies

Program Descriptions
The study of politics is the study of how people are governed and how they govern themselves, and this process involves, among other things, the decision to allocate scarce resources to an expanding population with ever-increasing demands.

As a discipline, in the West, political science originates with the Greeks. Following their lead, as part of our major and our discipline of political science, we examine the views of political philosophers from Plato and Aristotle to the present on the question of which type of government is most conducive to human fulfillment and why.

Given that we are a department of political science at an American institution of higher learning, we therefore study the American political experience as a unique experiment in “self-government,” but we also go beyond studying how America is governed to look at other political systems with a view to realizing the differences and commonalities between these political systems. We examine these differences in our attempt to understand something about the degree to which one system is better suited to a country than another, and whether or not one can indeed speak of one type of political arrangement as the “best.” Our discipline also seeks to understand the causes, dynamics and possibilities of conflict and conflict resolution in the international arena, by studying the interactions of states, international organizations, non-governmental organizations, and non-state actors on the global scene.

In addition to the two Political Science Associate Degrees available, our department also offers several additional degree emphases, such as the Associate Degrees in Economics, Global Studies, Law and Society and Middle East Studies, in order to allow students to focus more specifically on areas of interest, both nationally and internationally.

Economics Program
Santa Barbara City College will provide you with a solid foundation from which you can build analytical skills. These skills will improve your decision-making processes in many aspects of your life: as a consumer, an employee, an employer, a voter, etc.

Courses in economics will offer the transfer student both theoretical and empirical foundations which will prepare you for further study in many fields, including environmental studies, global and international studies, sociology and history, as well as economics.

Global Studies Program
Enables students to understand how globalization continues to evolve, and to provide an academic background which prepares them for today’s many career fields that require a global perspective.

Reflecting the complexity of today’s world, Global Studies is an interdisciplinary major. It integrates the following disciplines:

Law and Society Program
Involves the study of law and legal systems as they relate to the larger societies of which they are a part. While the program is of special interest to students who plan careers in government service or law, many of the majors simply share a desire to understand the role of law in society.

Middle East Studies
Involves the study of the history, politics, cultures, religions and languages of one of the most complex and critical regions of the world. While the program is of special interest to students who plan careers in government service or business, majoring in Middle East Studies meshes with and complements well other areas of study, such as International Relations, Global Studies, Political Science, History and International Business, to name a few.

Political Science courses help prepare students for specific careers. For example, Political Science is often
used as a pre-law major or for other related professions, such as careers in government at the federal, state or local levels. Our discipline is also appropriate for a number of careers at the international level, such as international diplomacy or international business, as well as other professions in non-governmental sectors both nationally and internationally, and our faculty invite your questions about such opportunities.

Department and Faculty Offices
Economics: Ruth Morales (IDC-358, ext. 2245)
Global Studies: Andrea B. Haupt
(IDC-351, ext. 3735)
Law and Society Studies: Joseph Martorana
(IDC-349, ext. 4277)
Middle East Studies: Manoutchehr M. Eskandari-Qajar
(IDC-352, ext. 2435)
Political Science: Manoutchehr M. Eskandari-Qajar
(IDC-352, ext. 2435)

Political Science

Student Learning Outcomes
Students majoring in Political Science should, at the end of their two years of study at the college, be able to achieve the following level of proficiency in this field. This measure is referred to as Student Learning Outcomes, and they are as follows for the Political Science Department:

1. Demonstrate knowledge of how people are governed and how they govern themselves
2. Analyze the role of government institutions in contemporary society
3. Demonstrate knowledge of key terms and core concepts of political systems

AA Degree: Political Science

Department Requirements (21-24 units)
POLS 101 — American Government and Politics ............3
POLS 121 — International Politics ................................3
POLS 132 — Political Thinking ...................................3

One course from the following:

POLS 126 — The United States in World Affairs ............3
POLS 131 — Comparative Politics ................................3

One course from the following:
*POLS 104 — American Government: Policy Issues/Process .................................................................3
POLS 106H — Presidency and American Instit., Honors ....3
POLS 107 — California State and Local Politics ............3
POLS 110 — Politics, Society and the Mass Media ........3
POLS 111 — Elements of Government Finance .............3
POLS 134H — Political Violence, Honors ....................4
POLS 141 — Public Administration: Introduction ............3
POLS 151 — Law and Society ....................................3
POLS 151H — Law and Society, Honors ....................4
POLS 295 — Internship in Political Science ..................3

One course from the following:
HIST 101 — History of the U.S. to 1865 .........................3
HIST 102 — History of the U.S. since 1865 ...................3
HIST 102H — History of the U.S. since 1865, Honors ....4
*HIST 103 — History of Western Civilization ...............3
*HIST 104 — History of Western Civilization ...............3
*HIST 113H — Western Civilization,1600-Present, Honors .4
HIST 134 — History of Latin America ........................3
HIST 138 — History of Modern Middle East .................3

One course from the following:
ANTH 103 — Cultural Anthropology ..........................3
ANTH 109 — Comparative World Cultures ..................3
ERTH 142/GEOG 105 — Economic Geography ............3
*ECON 101 — Microeconomics ................................3
*ECON 102 — Macroeconomics ................................3
GEOG 102 — Human Geography ..............................3
PHIL 100 — Introduction to Philosophy ......................3
PHIL 100H — Introduction to Philosophy, Honors ........4
PHIL 200 — History of Philosophy: Ancient and Medieval .3
PHIL 201 — History of Philosophy: Modern .................3
PSY 100 — General Psychology or ..........................3
PSY 100H — General Psychology, Honors ................4
SOC 101 — Introduction to Sociology or.................3
SOC 101H — Introduction to Sociology, Honors............4
SOC 104 — Social Psychology...............................3

*Note: Courses particularly recommended for major.

College Requirements
For complete information, see “Graduation Requirements” in the Catalog Index.

Requirements for AA-T Degree—Political Science for Transfer
The goal of the Political Science Program at Santa Barbara City College is to prepare students to develop the fundamental understanding of the American political experience as a unique experiment in “self-government,” going beyond studying how America is governed to look at other political systems with a view to realizing the differences and commonalities between these political systems. The program examines these differences in an attempt to understand something about the degree to which one system is better suited to a country than another, and whether or not one can indeed speak of one type of political arrangement as the “best.” Our discipline also seeks to understand the causes, dynamics and possibilities of conflict and conflict resolution in the international arena, by studying the interactions of states, international organizations, non-governmental organizations, and non-state actors on the global scene.

The Associate in Arts Degree in Political Science for Transfer provides students with the foundational knowledge in Political Science to make a successful transition into a Baccalaureate Degree in Political Science at any of the CSU campuses.

Degree Requirements
Complete 60 CSU-transferable units including General Education, major requirements and CSU-transferable electives as follows:

I. General Education
Complete one of the following patterns:
- Intersegmental General Education Transfer Curriculum “IGETC” for CSU (38 semester units)
- California State University General Education Breadth pattern (40 semester units)

II. Major
Complete 18-22 units as outlined below with a “C” or better or Pass in each course. The courses completed for the major may also be used to fulfill general education areas on the IGETC or the CSU GE Breadth.

Required Core Course (3 units):
POLS 101* — American Government and Politics............3

List A: Select three courses from the following (9-10 units):
POLS 121* — International Politics............................3
POLS 131* — Comparative Politics.............................3
POLS 132* — Political Thinking..................................3
PSY 150* — Statistics for Behavioral Science or..............4
   MATH 117* — Elementary Statistics or......................4
   MATH 117H* — Elementary Statistics, Honors..............4

List B: Select one course from each group (6-9 units):
Anv List A course not used above and/or
* All of these courses fulfill an IGETC and/or a CSU GE Breadth pattern requirement. Visit www.assist.org or www.sbcc.edu/transfercenter for IGETC and CSU GE Breadth requirements.

III. CSU-Transferable Electives
Complete as many units as needed to reach a total of 60 CSU-transferable units (for a list of SBCC-transferable courses to CSU, visit www.assist.org).

Additional Graduation Requirements for AA-T in Political Science:
- Maintain a cumulative CSU-transferable GPA of 2.0.
Residency Requirements: Candidates for an Associate Degree are expected to complete 15 semester units in residence at SBCC. Candidates for an Associate Degree are also expected to complete at least 20% of the department major requirements in residence at SBCC.

Planning a Program of Study
As a general rule, students should begin their study of Political Science with POLS 101 because many of the basic concepts of the discipline are introduced here within the familiar context of American Politics.

Upon completion of POLS 101, the selection of courses will, in part, depend upon the four-year school to which the student plans to transfer and the particular emphasis of the student’s major. Virtually all college and university political science departments require a course in Comparative Politics, which can be satisfied by taking POLS 131. This course is offered during both the Fall and Spring semesters.

Students transferring to UCSB should also take POLS 132 (Political Thinking) and POLS 121 (International Politics), offered in both Spring and Fall semesters. Students with an interest in law are encouraged to take POLS 151, which is offered during the Spring semester. Those contemplating a career in communications should take POLS 110.

The Political Science Department also encourages students to participate in the Internship Program (POLS 295, which can be taken for 2-4 units) in order to gain practical experience and possible insight and direction as to future professional/vocational plans.

Preparation for Transfer
Course requirements for transfer vary depending upon the college or university a student wishes to attend. Therefore, it is most important for a student to consult with his/her counselor and departmental adviser before planning an academic program for transfer. Information sheets for majors, outlining transfer requirements, are available in the Counseling Center, at ext. 2285.

Honors and Awards
The Political Science faculty selects one student each year to be honored as “Outstanding Student.” Students are nominated by members of the faculty, and selection is made on the basis of academic scholarship and the student’s contribution to our community’s understanding of political events. Students are also nominated for one or more of several prestigious scholarships available in Political Science, Global Studies and Middle East Studies. (For details on how to qualify and apply for these scholarships, please see the relevant sections on these majors in this Catalog or contact the Financial Aid Office at ext. 2716.)

Honors Courses
POLS 134H (Political Violence, Honors) is an interdisciplinary honors course organized as a seminar with extensive readings and requiring a major research paper. See Dr. M. M. Eskandari-Qajar (IDC-352, ext. 2435) for further information.

POLS 106H (The Presidency and American Institutions, Honors) presents the American Presidency as the linchpin of the American constitutional system. Emphasis is on the relationship among the President, Congress, courts, the federal system, political parties, interest groups and the bureaucracy. Contact Dr. John Kay, professor emeritus, at kay@sbcc.edu for further information.

Work-Study Programs and Simulations
The Political Science Department offers three courses which involve field work in Sacramento, Washington, D.C. and at selected campuses, including our own, hosting Model United Nations conferences. POLS 107 takes students to Sacramento to view California’s political process and POLS 295 accomplishes the same thing for Sacramento and Washington, D.C., when combined with the Washington D.C. Internship and Study Program (SB/DC) or the Sacramento Internship and Study Program (SB/Sac). Contact the Study Abroad Office at ext. 2494 for the latest information on the next program to Washington, D.C. or contact Dr. M. M. Eskandari-Qajar, chair of Political Science at ext. 2435. Lastly, POLS 122 and 123 involve participation in a regional simulation of the Model United Nations. For more information on the Model UN and participation in it, contact Dr. Andrea B. Haupt at ext. 3735, or Mr. David Morris, Dept. of History, at ext. 5145.

Internships
Our department also places students as interns with local attorneys’ offices, public officials, or with other professionals engaged in the discipline of political
science. Interested students should contact Dr. M. M. Eskandari-Qajar at ext. 2435, Dr. Andrea Haupt at ext. 3735, or Mr. Joseph Martorana at ext. 4277.

**Tutorial Assistance**

The faculty of the Political Science Department encourages students who might be interested in a career in teaching and who have taken our basic course, POLS 101, to inquire about opportunities to serve as tutors for other students. Several of our Political Science courses, such as POLS 101 are offered as Gateway courses and have regular tutorials as well as discussion sections attached to them. For more information on the Gateway Program and the Gateway Center, please contact Ms. Sheila Wiley, Director, ext. 5156. Regular tutorials in Political Science (various classes) are also available at the Tutoring Center in the Learning Resources Center on campus. For more information on tutorials, contact Jason Levy at ext. 2667.

**Departmental Advising**

Our faculty is eager to provide counseling to students seeking to explore career opportunities which relate to the Political Science major or who simply need further information about any of our course offerings. Contact the chair of the department, Dr. M. M. Eskandari-Qajar at ext. 2435, for an appointment to explore the varieties of options available to students. Additionally, students should seek out the Career Center at SBCC for information on jobs in the field, at ext. 2331.

**Student Participation**

We invite student input at any time about needed changes in curriculum or additions to our program. Our course offerings are constantly under review and we welcome student perspective. The Political Science Department also coordinates three student clubs affiliated with the various majors under Political Science:

- The Political Science Club (PSC) is a student organization which plans regular programs designed to involve the student community in the political issues of relevance to the major. For further information, contact Mr. Joseph Martorana, IDC-349, ext. 4277.
- The International Studies Association (ISA) is a student organization which plans regular programs designed to involve the larger student community in the issues of our contemporary world. For further information, contact Dr. Andrea Haupt, IDC-357, ext. 3735.
- The Middle East Studies Club (MESC) is a student organization which meets regularly during the semester and plans programs designed to involve the student community in political and cultural issues dealing with the Middle East. For further information, contact Dr. M. M. Eskandari-Qajar, IDC-352, ext. 2435.

**Economics Program**

**Program Description**

Have the demonstrations against the World Trade Organization puzzled you? What has changed in the electric power industry? Did a Federal Reserve change in the discount rate catch your attention? How well do you feel you understand the economic events reported in the news?

The Economics Program at Santa Barbara City College will provide you with a solid foundation from which you can build analytical skills. These skills will improve your decision-making processes in many aspects of your life: as a consumer, an employee, an employer, a voter, etc. Courses in economics will offer the transfer student both theoretical and empirical foundations which will prepare you for further study in many fields, including environmental studies, global and international studies, sociology and history, as well as economics.

Introduction to Economics (ECON 108) is a survey course intended for non-majors.

**Program Student Learning Outcomes**

1. Demonstrate knowledge of key terms and core concepts of economics.
2. Examine and analyze the market and non-market processes by which scarce resources are allocated.
3. Develop enhanced analytical abilities for the understanding and critical evaluation of relevant arguments.

**Associate in Arts Degree: Economics**

**Department Requirements (24 units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 230</td>
<td>Financial Accounting</td>
<td>5</td>
</tr>
<tr>
<td>ACCT 240</td>
<td>Managerial Accounting</td>
<td>4</td>
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</tbody>
</table>
ECON 101 — Microeconomics ........................................... 3
ECON 102 — Macroeconomics ........................................... 3
Social Science Electives* .................................................. 9

*Note: Any Math course numbered 107 or higher may be substituted for one Social Science elective.

College Requirements
For complete information, see “Graduation Requirements” in the Catalog Index.

Requirements for AA-T Degree—Economics for Transfer
The Associate in Arts Degree in Economics for Transfer provides students with the foundational knowledge in Economics to make a successful transition into a Baccalaureate Degree in Economics at any of the CSU campuses.

Degree Requirements
Complete 60 CSU-transferable units including General Education, major requirements and CSU-transferable electives as follows:

I. General Education
Complete one of the following patterns:
- Intersegmental General Education Transfer Curriculum “IGETC” for CSU (38 semester units)
- California State University General Education Breadth pattern (40 semester units)

II. Major
Complete 21-25 units as outlined below with a “C” or better or Pass in each course. The courses completed for the major may also be used to fulfill general education areas on the IGETC or the CSU GE Breadth.

Required Core (15 units)
ECON 101* — Microeconomics ........................................... 3
ECON 102* — Macroeconomics ........................................... 3
MATH 150* — Calculus w/Analytic Geometry I or ..................... 5
    MATH 130* — Calc for Biol. Sci/Social Sci & Bus I ................. 5
PSY 150* — Statistics for Behavioral Science or ..................... 4
    MATH 117* — Elementary Statistics or .............................. 4
    MATH 117H* — Elementary Statistics, Honors ..................... 4

List A. Select one course from the following (3-5 units)
ACCT 110 — Introduction to Accounting ................................. 4
ACCT 230 — Financial Accounting ....................................... 5
ACCT 240 — Managerial Accounting .................................... 4
ARBC 101* — Beg. Modern Standard Arabic I ......................... 5
ARBC 102* — Beg. Modern Standard Arabic II ....................... 5
BLAW 101 — Business Law or ........................................... 4
    BLAW 110 — Legal Environment of Business ...................... 4
CHIN 101* — Beginning Chinese I ....................................... 5
CHIN 102* — Beginning Chinese II ..................................... 5
CIS 101 — Intro. to Computers & Info Systems ....................... 4
CIS 209 — Visual Basic.NET Programming ............................ 4
COMM 235* — Argumentation and Debate .............................. 3
COMP 109 — Microsoft Excel ............................................. 4
COMP 271 — Business Communication .................................. 3
CS 101 — Computer Concepts ............................................. 4
ENG 111* — Crit Thkg & Comp. Through Lit or ....................... 3
    ENG 111H* — Crit Thkg & Comp. Thru Lit, Honors ............. 3
MATH 120* — College Algebra ............................................ 4
MATH 137* — Precalc I – College Alg. & Functions ................. 5
MATH 138* — Precalc II – College Algebra & Trig .................. 4
MATH 160* — Calculus with Analytic Geometry II ................. 5
MATH 200* — Multivariable Calculus ................................... 4
MATH 210* — Linear Algebra ............................................. 4
MATH 220* — Differential Equations .................................... 4
PHIL 111* — Critical Thinking & Writing in Phil .................... 3
SOC 101* — Introduction to Sociology or ........................... 3
    SOC 101H* — Introduction to Sociology, Honors ............ 4
SPAN 101* — Beginning Spanish I ...................................... 5
SPAN 102* — Beginning Spanish II .................................... 5
SPAN 103* — Intermediate Spanish I .................................. 5
SPAN 104* — Intermediate Spanish II .................................. 5
SPAN 146* — Spanish for Native Speakers ............................ 5
SPAN 147* — Spanish for Native Speakers ............................ 5
List B. Select one course from the following (3-5 units)
*Any List A course not already used or
ECON 106* — International Economics ......................... 3

* All of these courses fulfill an IGETC and/or a CSU GE Breadth pattern requirement. Visit www.assist.org or www.sbcc.edu/transfercenter for IGETC and CSU GE Breadth requirements.

III. CSU-Transferable Electives
Complete as many units as needed to reach a total of 60 CSU-transferable units (for a list of SBCC-transferable courses to CSU, visit www.assist.org).

Additional Graduation Requirements for AA-T in Economics:
• Maintain a cumulative CSU-transferable GPA of 2.0.
• Residency Requirements: Candidates for an Associate Degree are expected to complete 15 semester units in residence at SBCC. Candidates for an Associate Degree are also expected to complete at least 20% of the department major requirements in residence at SBCC.

Planning a Program of Study
In order to plan the best possible program of study to meet individual needs, students are strongly encouraged to contact the Political Science/Economics Department Chairperson or the counselor assigned to the Social Sciences Division. These individuals are eager to assist students, and they welcome the opportunity to be helpful.

Preparation for Transfer
Fulfilling only the Degree Requirements for the AA in Economics is insufficient preparation to transfer to a four-year university. Major requirements for transfer vary depending upon the college or university a student wishes to attend. Therefore, it is most important for a student to consult with his/her counselor and departmental adviser before planning an academic program for transfer. Information sheets for majors, outlining transfer requirements, are available in the Counseling Center and Transfer Center.

Sample Transfer Program

First Year
Fall Semester
ENG 110 or 110H — Composition and Reading ................ 3
Social Science (GE) ..................................................... 3
Arts/Humanities (GE) .................................................. 3
*Math ............................................................... 4
General Education Elective ........................................... 3
Total ......................................................... 16

Spring Semester
ENG 111 or 111H — Critical Thinking ............................. 3
Biology ................................................................. 3-5
COMM 131 or 131H — Public Speaking ........................... 3
Arts/Humanities (GE) .................................................. 3
*Math ............................................................... 4
Total ......................................................... 16-18

Second Year
Fall Semester
ECON 101 — Microeconomics ....................................... 3
ACCT 230 — Financial Accounting ................................. 5
Physical Science ........................................................ 3-4
Foreign Language ..................................................... 4
*Math ............................................................... 4
Total ......................................................... 19-20

Spring Semester
ECON 102 — Macroeconomics ....................................... 3
ACCT 240 — Managerial Accounting ................................. 4
Art/Humanities ........................................................ 3
Gen. Ed. Electives ...................................................... 3
*Math ............................................................... 4
Total ......................................................... 17

*All UC and CSU campuses require calculus as lower division preparation for a major in economics.

Economics Courses

ECON 101 — Microeconomics
(3) — CSU, UC
Prerequisites: MATH 95 with a minimum grade of “C” or qualifying score on SBCC placement exam.
Skills Advisories: Eligibility for ENG 110 or 110H; proficiency in MATH 104 or 107 or 111
Hours: 54 lecture

Presents modern theories of price formation, industrial organization, factor pricing and income determination.
Emphasis on U.S. markets and their relationships with the rest of the world.

**ECON 101N — Microeconomics Discussion**  
(0.5-1) — CSU  
*Skills Advisories: MATH 95 and Eligibility for ENG 110 or 110H*  
*Hours: 18 lecture*

Optional course intended to augment student understanding of ECON 101. A theory of market value is developed. Models of industrial organization are presented and discussed. Factor pricing and the distribution of income are analyzed.

**ECON 102 — Macroeconomics**  
(3) — CSU, UC  
*Prerequisites: MATH 95 with a minimum grade of “C” or qualifying score on SBCC placement exam.*  
*Skills Advisories: Eligibility for ENG 110 or 110H; proficiency in MATH 104 or 107 or 111*  
*Hours: 54 lecture*

Systematic analysis of the factors which determine national income, business cycles, unemployment and inflation. Overview of U.S. banking structure.

**ECON 102N — Macroeconomics Discussion**  
(0.5-1) — CSU  
*Skills Advisories: MATH 95 and Eligibility for ENG 110 or 110H*  
*Hours: 18 lecture*

Optional course intended to augment student understanding of ECON 102. Logical and critical thinking skills are developed. Topics include national income and product accounts, business cycles, unemployment and inflation. Counter-cyclical monetary and fiscal policies are explained.

**ECON 106 — International Economics**  
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 110 or 110H and proficiency in MATH 104 or 107 or 111*  
*Hours: 54 lecture*

Principles of economics applied to issues of international commerce: (1) gains from trade; (2) resources; (3) tariffs, quotas, export taxes, and other barriers to trade; (4) the balance of payments; and (5) national policies under a variety of exchange rates management systems. International economic institutions also reviewed.

**ECON 108 — Fundamentals of Economics**  
(3) — CSU, UC*  
*Skills Advisories: Eligibility for ENG 110 or 110H*  
*Hours: 54 lecture*

Survey of basic economic concepts and institutions, with emphasis on the American economy. Designed for non-majors who desire to get economic perspective without intensive or technical investigation. Students majoring in Business Administration or Economics should not enroll in this course. (*UC Transfer Limit: no credit for 108 if taken after 101 or 102.)*

**ECON 295 — Internship in Economics**  
(2-4) — CSU  
*Limitation on Enrollment: Completion of two courses in the Economics Department at SBCC prior to enrolling in an internship course.*  
*Five to 10 hours weekly on-the-job experience.*  
*Skills Advisories: Eligibility for ENG 110 or 110H*  
*Hours: 228-273 lab*

Structured Internship program in which students gain experience in community organizations related to the discipline.

**ECON 299 — Independent Study in Economics**  
(1-4) — CSU  
*Limitation on Enrollment: Completion of a minimum of 12 units at SBCC with a 2.5 GPA and a minimum of 6 units with a 3.0 GPA within the department.*  
*Skills Advisories: Eligibility for ENG 110 or 110H*  
*Hours: 48-192 lab*

May be taken for one to three units of credit; each unit of credit requires student to devote approximately three hours per week to his/her project. Student works under guidance and direction of sponsoring faculty member on project consistent with interests and abilities. Minimal monthly meetings with faculty sponsor required. (*UC Transfer Limit: 299 computed as Independent Studies; see a counselor.)*

**Global Studies**

**Program Description**

We live in a world that seems to become “smaller” at an accelerated pace. Rise in global trade, rapid advances in technology, unprecedented degrees of inter-cultural communication and international travel, a growing body of international law, the growing number...
of global non-state actors and the seriousness of today's environmental problems have been creating an increasingly connected world. This process of globalization has transformed our planet, creating new opportunities and many new challenges. The mission of the Global Studies Program is to enable students to understand how globalization continues to evolve, and to provide an academic background which prepares them for today's many career fields that require a global perspective. Reflecting the complexity of today's world, Global Studies is an interdisciplinary major. It integrates the following disciplines:

- History, allowing us to learn about the evolution of our global civilizations;
- Anthropology and Sociology, to study the evolution of societies, societal characteristics and changes;
- Communication, to study communication between cultures and nations;
- Philosophy, to help us understand fundamental concepts such as our values and the philosophy of religions;
- Political Science, to understand the role of nation-states, international organizations, international law and private organizations in the globalization process;
- Economics and Business, to study the growth of trade and its effects;
- Environmental Studies, to explore the many ecological problems related to economic growth and the dramatic rise in global population; and
- Foreign languages, to help us understand other people and communicate more effectively across national barriers.

Combining these academic disciplines into one interdisciplinary, colorful major—in order to understand the rapidly unfolding process of globalization—is the objective of our program.

**Program Student Learning Outcomes**

Upon completion of the Global Studies major requirements, students should be able to:

1. Describe key developments in the ongoing process of globalization
2. Analyze the concept of global interdependence with reference to various characteristics of globalization and to specific global problems
3. Connect concepts related to political, economic, cultural and ecological globalization with events discussed in contemporary news

**AA Degree: Global Studies**

**Department Requirements (18-20 units)**

**A. Core Requirements (9 units)**

- GLST 101 — Introduction to Global Studies: Foundations of the Global Village
- GLST 102 — Problems of the Global Village
- POLS 121 — International Politics or
- POLS 131 — Comparative Politics

**B. Electives: Select three courses (9 units) from the following, from different disciplines.**

*Note: It is highly recommended that students intending transfer select their courses in consultation with an academic counselor to ensure that they meet the requirements of four-year institutions.*

- ANTH 103 — Introduction to Cultural Anthropology
- ANTH 109 — Comparative World Cultures
- ART 104 — History of Art: Renaissance to Modern or
- ART 104H — History of Art: Renaissance to Modern, Honors
- ART 108 — History of Asian Art
- ART 110 — A History of Women in Art
- ART 111 — Survey of Tribal Arts
- ART 215 — Survey of Non-Western Art
- ART 216 — Survey of Islamic Art and Architecture
- COMM 151 — Intercultural Communication
- ECON 102 — Macroeconomics
- ECON 106 — International Economics
- IBUS 102 — Introduction to International Business
- MKT 209 — International Marketing
- ENG 232 — World Literature
- ENG 237 — Sacred Literature, Western Texts
- ENVS 110+ — Humans and the Biological Environment
- ERTH 141+ — Physical Geography or
- GEOG 101+ — Physical Geography
- GEOG 102 — Human Geography
- GEOG 105 — Economic Geography or
- ERTH 142 — Economic Geography
- HIST 104 — History of Western Civilization or
- HIST 113H — History of Western Civilization, Honors
- HIST 108 — World Civilization, 1550-Present
Planning a Program of Study
As a general rule, students should begin their Global Studies major by taking GLST 101 and 102 in Fall and Spring respectively, and should follow up by taking POLS 121 and 131 in the subsequent semesters. Students should also simultaneously take one class from the selected areas A through F over the course of four semesters at SBCC.

Students seeking to transfer to UCSB must also complete their one year language requirement at SBCC before transferring. (See this Catalog, School of Modern Languages, for languages available to satisfy this requirement.)

AA Degree Requirements
An AA Degree in Global Studies can be obtained by satisfying the department requirements in Global Studies and the General Education and institutional requirements for the Associate in Arts Degree. For complete information, see “Graduation Requirements” in the Catalog Index.

Preparation for Transfer
A number of colleges and universities have transfer programs in Global Studies; others have programs in International Studies or International Relations. Specific degree requirements differ. Information sheets for majors, outlining transfer information, are available at the Counseling Center, ext. 2285.

Honors and Awards
Each year, the faculty selects one student as the Global Studies Student of the Year on the basis of academic performance and contribution to our program. This student is recognized and honored at the Annual Awards Banquet. In addition, each Spring Semester, the Global Studies Program awards the “Peter O. Haslund Global Studies Scholarship”, a permanent scholarship made possible by a generous donation by Mrs. Margareta Jamner in honor of the founder of the Global Studies Program at SBCC, Dr. Peter Haslund, in the amount of $1,000, given on the basis of both academic promise and financial need. This scholarship is administered by the SBCC Foundation. For more information, contact the Financial Aid Office at ext. 2716.

Study Abroad Programs
Students are encouraged to participate in any of our Study Abroad programs, which are intended to make
use of an international setting as a global classroom. For more information, contact the Study Abroad Office at ext. 2494.

**Student Participation**

The International Studies Association (ISA) is a student organization which plans regular programs designed to involve the larger student community in the issues of our contemporary world. For further information, contact Dr. Andrea Haupt, Room IDC-351, ext. 3735

**Global Studies Courses**

**GLST 101 — Introduction to Global Studies: Foundations of the Global Village**
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 110 or 110H*  
*Hours: 54 lecture*

Introduction to the interdisciplinary field of global studies. Examines the history of globalization, including the role of communication technology, and analyzes various aspects of globalization: economic, political, cultural and ecological. For each, the focus is on the extent of global cooperation, global conflict and growing global interdependence.

**GLST 102 — Problems of the Global Village**  
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 110 or 110H*  
*Hours: 54 lecture*

Examines a number of specific problems that the global community faces today, such as global economic inequality and poverty, human rights violations and the status of women, global crime, environmental problems, and global health. Possible approaches for solving these issues are explored, with a focus on global governance.

**GLST 103 — Foundations of the Global Village: Discussion**  
(1) — CSU  
*Corequisites: GLST 101*  
*Hours: 18 lecture*

Weekly discussion section for students enrolled in GLST 101. Discussion of lecture topics, readings and contemporary events. Development of skills related to the writing of a term paper.

**GLST 295 — Internship in Global Studies**  
(2-4) — CSU  
*Skills Advisories: Eligibility for ENG 110 or 110H*  
*Limitation on Enrollment: Completion of two courses (in applicable discipline) prior to enrolling in an Internship course.*  
*Hours: 216 lab*

Internship program in which students gain experience in community organizations related to the discipline.

**GLST 299 — Independent Study in Global Studies**  
(1-4) — CSU  
*Skills Advisories: Eligibility for ENG 110 or 110H*  
*Limitation on Enrollment: Complete 12 units at SBCC with a GPA of 2.5 and a minimum of 6 units with a GPA of 3.0 in Global Studies.*  
*Hours: 48-192 lab*

Independent study course providing an opportunity for students to explore a specific Global Studies topic in depth, while working closely with their professor.

**POLS 121 — International Politics**  
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 110 or 110H*  
*Course Advisories: POLS 101*  
*Hours: 54 lecture*

Introduction to the field of international politics. Discussion of the history of international politics, including the emergence of nation-states, international organizations, and nongovernmental organizations. Use of various international relations theories to analyze war and conflict, diplomacy and cooperation, and foreign policy-making.

**POLS 131 — Comparative Politics**  
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 110 or 110H*  
*Course Advisories: POLS 101*  
*Hours: 54 lecture*

Comparison between Western and non-Western political systems, and the political institutions of selected countries, such as Russia, Great Britain, France, Germany, Italy, Japan, Mexico, India, Iran and Nigeria, as well as the European Union.

**Law and Society**

**Program Description**

The Law and Society Program involves the study of law and legal systems as they relate to the larger
societies of which they are a part. While the program is of special interest to students who plan careers in government service or law, many of the majors simply share a desire to understand the role of law in society.

Some of the questions students will encounter in courses in this program include: Do all societies have law? Why do legal systems develop? What purposes are served by the law? Why do different societies develop different types of law? How are legal resources distributed within societies? How does one determine if a law is constitutional? How does one know if a law is just? While these are only examples of the issues addressed by the program, they do suggest the breadth of the concerns involved.

The Law and Society major seeks to understand the nature of law and legal institutions from a variety of perspectives. The program is interdisciplinary, with courses offered in the following fields: Justice Studies, Anthropology, Economics, History, Philosophy, Political Science, Psychology and Sociology. The program is designed to benefit both the student who desires a liberal education and the student who intends to enter graduate or law school.

The Law and Society Program also offers an emphasis in criminal justice, stressing the study of criminal justice as a social science. This specialization is designed for students who are particularly interested in the area of law enforcement. The emphasis is not on technical training, but rather is designed to expose students to a variety of approaches to understanding the criminal justice system and, more generally, crime.

Career choices include urban planning, court management, probation, counseling, legal practice, federal, state and local government service. This major with a BA Degree can lead to advanced degree programs in judicial administration and the social sciences, paraprofessional legal training and law school.

Program Student Learning Outcomes
1. Demonstrate knowledge of the interrelationships among various legal institutions and actors.
2. Analyze law and legal systems as they relate to the larger societies of which they are part.
3. Understand the various sources of laws and how the different components of the legal system operate to settle both criminal and civil conflicts.

AA Degree Requirements
An AA Degree in Law and Society or Law and Society (Criminal Justice emphasis) can be obtained by satisfying the degree requirements above and the General Education and institutional requirements for the Associate in Arts Degree. For complete information, see “Graduation Requirements” in the Catalog Index.

Preparation for Transfer
A number of colleges and universities have transfer programs in Law and Society. Specific degree requirements differ. Information sheets for majors, outlining transfer information, are available at the Counseling Center, Room SS-120.

Special Programs
Students are encouraged to participate in any of our Work-Study programs to Sacramento and Washington, D.C., which are intended to give students a hands-on experience in the areas relevant to the Law and Society major. For further information, contact Dr. M. M. Eskandari-Qajar, ext. 2435, or Joseph Martorana, ext. 4277.

AA Degree: Law and Society
Department Requirements (21-26 units)
PHIL 205 — Introduction to Logic..........................3
POLS 101 — American Government and Politics ..........3
POLS 151 — Law and Society or
POLS 151H — Law and Society, Honors ................. 3-4
SOC 101 — Introduction to Sociology or
SOC 101H — Introduction to Sociology, Honors ....... 3-4

Three courses from the following
ANTH 103 — Introduction to Cultural Anthropology ........3
ECON 101 — Microeconomics ................................3
ECON 102 — Macroeconomics ................................3
HIST 101 — History of the U.S. to 1865 ....................3
HIST 102 — History of the U.S. since 1865 or ......... 3
    HIST 102H — History of the U.S. since 1865, Honors ..4
HIST 103 — History of Western Civilization .............3
HIST 104 — History of Western Civilization or
    HIST 113H — History of Western Civilization, 1600-Present, Honors .................. 3-4
PHIL 200 — History of Philosophy: Ancient and Medieval ...3
PHIL 201 — History of Philosophy: Modern ...............3
POLS 104 — American Government:
    Policy Issues/Process ..................................3
POLS 121 — International Politics ........................................ 3
POLS 131 — Comparative Politics ........................................ 3
PSY 100 — General Psychology or ....................................... 3
    PSY 100H — General Psychology, Honors .......................... 4
PSY 150 — Statistics for Behavioral Sciences .......................... 4

AA Degree: Law and Society
(Criminal Justice Emphasis)

Department Requirements (28-31 units)
AJ 101 — Introduction to Administration of Justice .................. 3
AJ 107 — Concepts of Criminal Law ..................................... 3
ECON 101 — Microeconomics or
    ECON 102 — Macroeconomics ........................................ 3
PHIL 205 — Introduction to Logic ......................................... 3
POLS 101 — American Government and Politics ..................... 3
POLS 151 — Law and Society or
    POLS 151H — Law and Society, Honors ........................... 3-4
PSY 100 — General Psychology or
    PSY 100H — General Psychology, Honors ........................... 3-4
PSY 150 — Statistics for Behavioral Sciences .......................... 4
SOC 101 — Introduction to Sociology or
    SOC 101H — Introduction to Sociology, Honors ................... 3-4

Political Science Courses

POLS 101 — American Government and Politics
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Introduction to Constitutional principles and their application to the political process and institutions of the United States and the State of California. Attention given to political ideas, processes and issues.

POLS 102 — American Government and Politics: Discussion
(1) — CSU, UC*
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 18 lecture
Optional course intended to augment student understanding of the political process and related issues as presented in POLS 101. (This course parallels the discussion section of POLS 12 at UCSB.)

(*UC Transfer Limit: no credit for POLS 102 unless taken concurrently or after 101)

POLS 104 — American Government:
Policy Issues/Process
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Study of formulation, enactment and impact of public policy issues in the U.S. and the state of California, including environment, health care, energy, poverty and welfare, defense, criminal justice, education, civil rights and budgets. Emphasis on policy models, processes and issues.

POLS 106H — The Presidency and American Institutions, Honors
(3) — CSU, UC
Limitation on Enrollment: Honors Program Acceptance.
See “Honors” section of this Catalog.
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Study of the American Presidency as the linchpin of the American Constitutional system. Introduction to the relationships among the Presidency, the Congress, courts, press, public and the federal system, including state and political systems, governors, and local jurisdictions, political parties and interest groups. Special emphasis on those values and political pressures which shape the Presidency.

POLS 107 — California State and Local Politics
(3) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Examination of the policies and decision-making process at state and local levels and an exploration of the major contemporary issues facing citizens.

POLS 110 — Politics, Society and the Mass Media
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Examination of the role played by the mass media in contemporary political society. This survey course includes a focus on such topics as national and international propaganda, the evolution of television and campaign advertising, news analysis, television...
and political information, government regulation and First Amendment controversies.

**POL 111 — Elements of Government Finance**  
(3) — CSU  
*Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture*  
Introduction to financial realities of government. Surveys local/state government fiscal policies, revenues and budget cycles, taxes and intergovernmental fiscal relationships.

**POL 121 — International Politics**  
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture*  
Introduction to the field of international politics. Discussion of the history of international politics, including the emergence of nation-states, international organizations, and nongovernmental organizations. Use of various international relations theories to analyze war and conflict, diplomacy and cooperation, and foreign policy-making.

**POL 122 — International Organizations: Global and Regional Governance**  
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture*  
Focuses on the history and current actions of international organizations, such as the UN and the EU, and their diverse member states. Discussion of a variety of international problems, such as effective governance, war, economic development, environmental problems and human rights. Students participate in an in-class simulation activity.

**POL 126 — The United States in World Affairs**  
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture*  
Thematic study of major problems of international relations as they relate to U.S. foreign policy.

**POL 131 — Comparative Politics**  
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 110 or 110H  
Course Advisories: POLS 101  
Hours: 54 lecture*  
Comparison between Communist and Western democratic political systems. Study of the interrelationships between major world ideologies (communism, socialism, fascism, liberalism, conservatism) and the political institutions of selected countries, such as Russia, China, Britain, France, Germany, Japan and South Africa.

**POL 132 — Political Thinking**  
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 110 or 110H  
Course Advisories: POLS 101  
Hours: 54 lecture*  
Exploration of fundamental issues in political theory as interpreted by such thinkers as Plato, Aristotle, Hobbes, Locke, Burke, Rousseau, Marx and others.

**POL 134H — Political Violence, Honors**  
(4) — CSU, UC  
*Limitation on Enrollment: Honors Program Acceptance  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 72 lecture*  
Interdisciplinary study of origin, causes, dimensions and kinds of political violence, from regicide to terrorism, from revolution to war. Emphasis on theoretical and historical studies of political violence.

**POL 136 — Middle East Government and Politics**  
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture*  
Introduction to the comparative study of the governments and politics of the Middle East. Emphasis on the study of the relationship between political development, political organization and social structure and such concepts as tradition, modernity, autocracy, democracy and political transition.

**POL 141 — Introduction to Public Administration**  
(3) — CSU  
*Skills Advisories: Eligibility for ENG 110 or 110H  
Course Advisories: POLS 101 or ECON 101 or MGMT 101  
Hours: 54 lecture*
Introduction to principles and trends in public administration, including organization, policies and decision processes. Topics include organizational theory and behavior, functions and methods of management, and program design, implementation and evaluation.

**POLS 151 — Law and Society**  
(3) — CSU, UC*  
**Skills Advisories:** Eligibility for ENG 110 or 110H  
**Hours:** 54 lecture

Study of the American judicial system as a political institution. Courts, judges, lawyers and police are examined. Emphasis placed on issues involving the criminal justice system. (*UC Transfer Limit: POLS 151 and 151H combined: maximum credit, one course)

**POLS 151H — Law and Society, Honors**  
(4) — CSU, UC*  
**Limitation on Enrollment:** Honors Program Acceptance  
**Hours:** 72 lecture

Study of the American judicial system as a political institution. Courts, judges, lawyers and police are examined. Emphasis placed on issues involving the criminal justice system. (*UC Transfer Limit: POLS 151 and 151H combined: maximum credit, one course)

**POLS 152 — Law and Society**  
(1) — CSU  
**Corequisites:** POLS 151 or 151H  
**Skills Advisories:** Eligibility for ENG 110 or 110H  
**Hours:** 18 lecture

One-unit course taught by a local attorney, prosecutor or judge intended to augment POLS 151 through the viewpoint of a practitioner in the legal profession.

**POLS 161-162-163-164 — Contemporary Political Issues**  
(1-2-3-4) — CSU  
**Skills Advisories:** Eligibility for ENG 110 or 110H  
**Hours:** 18-72 lecture

Discussion course on current national and international issues. (*UC Transfer Limit: 161-164 computed as Independent Study; see counselor)

**POLS 295 — Internship in Political Science**  
(2-4) — CSU  
**Skills Advisories:** Eligibility for ENG 110 or 110H  
**Limitation on Enrollment:** Completion of two courses in Political Science at SBCC prior to enrolling in an internship course.  
**Hours:** 96-216 lab

Internship program in which students gain experience in community organizations related to the discipline.

**POLS 299 — Independent Study in Political Science**  
(1-4) — CSU  
**Skills Advisories:** Eligibility for ENG 110 or 110H  
**Limitation on Enrollment:** Completion of a minimum of 12 units at SBCC, with a 2.5 GPA, and a minimum of six units, with a 3.0 GPA within the department.  
**Hours:** 48-192 lab

Independent study course that provides an opportunity for students to explore a specific Political Science topic in depth, while working closely with their professor.

**Middle East Studies**

**Program Description**

The Middle East Studies major involves the study of the history, politics, cultures, religions and languages of one of the most complex and critical regions of the world. While the program is of special interest to students who plan careers in government service or business, majoring in Middle East Studies meshes with and complements well other areas of study, such as International Relations, Global Studies, Political Science, History and International Business, to name a few.

Some of the questions students will encounter in courses in this program include: What are the main tenets of the major religions of the area? What is the history of the peoples of this region? What are the political systems of these countries like? Why is the region so critical to world politics? What are the differences in Middle Eastern cultures, within the Middle East and between the Middle East and the West and the East?

The Middle East Studies major also seeks to understand the question of democratization, political violence, the role of religion, ideology and the role of tradition and history in shaping the physical and psychological make-up of the region. The program will
be complemented with a Study Abroad component, offering students a hands-on experience in the life and culture and tradition and history of the Middle East.

Career choices include State Department area specialist, diplomatic service (national and international), policy adviser, policy analyst, federal, state and local government service and teaching. This major with a B.A. Degree can lead to advanced degree programs in Political Science, Middle East Studies, International Relations, Comparative Politics and Global Studies.

Program Student Learning Outcomes
Upon completion of the Middle East Studies major requirements, students should be proficient in the following areas and be able to:

1. Distinguish between the main tenets of the major religions of the Middle East
2. Explain the differences and similarities between the political systems of the Middle East
3. Correlate the role of religion, ideology and culture to the notions of modernization and democratization in the Middle East

AA Degree: Middle East Studies
Department Requirements (18 units)
ART 216 — Survey of Islamic Art and Architecture ............3
HIST 137 — History of Religions of the Middle East or ........3
HIST 138 — History of Modern Middle East .....................3
POLS 136 — Middle East Government and Politics ............3

Plus 9 units selected from the following
ANTH 109 — Comparative World Cultures ......................3
ARBC 101 — Beginning Modern Standard Arabic I ............5
ARBC 102 — Beginning Modern Standard Arabic II ...........5
HEBR 101 — Beginning Modern Hebrew I .......................5
HEBR 102 — Beginning Modern Hebrew II .......................5
ENG 237 — Sacred Literature, Western Texts or ..............3
ENG 237GB — Sacred Literature, Western Texts ...............3
ETHS 122 — Arab-American/Middle East Women in U.S. ....3
GLST 101 — Introduction to Global Studies:
  Foundations of the Global Village ..............................3
HIST 137* — History of Religions of the Middle East ........3
HIST 138* — History of Modern Middle East ...................3

MUS 119 — Middle Eastern Music, Dance and Culture ......3
PHIL 102 — Comparative World Religions or .................3
PHIL 102H — Comparative World Religions, Honors ......3
POLS 121 — International Politics .................................3
POLS 131 — Comparative Politics .................................3

*If not previously used to satisfy core requirement (listed above).

College Requirements
For complete information, see “Graduation Requirements” in the Catalog Index.

AA Degree Requirements
An AA Degree in Middle East Studies can be obtained by satisfying the department requirements in Middle East Studies and the General Education and institutional requirements for the Associate in Arts Degree. For complete information, see “Graduation Requirements” in the Catalog Index.

Planning a Program of Study
As a general rule, students should begin their Middle East Studies Program by taking one of the three core courses required for the major, either ART 216, HIST 137 or 138, or POLS 136. Students should continue taking one of the core classes per semester and adding at least one of the additional classes from the list above over the course of two years to complete their 18 required units in the program for the A.A. in Middle East Studies. Students are also encouraged, but not required, to take one of the languages for the program, either Arabic or Hebrew.

Students transferring to UCSB’s Middle East Studies Program should complete ART 216, HIST 137 or 138, or POLS 136 and ARBC 101 sequence at SBCC.

Honors and Awards
Each Spring Semester, one outstanding student in Middle East Studies is chosen by the Director of the program and recognized at the Outstanding Students Awards Banquet as the “Outstanding Student in Middle East Studies.” This student will also be given the “Margareta Jamner Middle East Studies Student of the Year Award,” named in honor of Margareta Jamner, benefactor and first graduate of the Middle East Studies program at SBCC. This award was
permanently endowed in 2008 by Mrs. Jamner to give students a $500 award for this achievement each year. Each Spring Semester, students may also apply for one of three prestigious scholarships in Middle East Studies in the amount of $1,000 each: the “Manoutchehr M. Eskandari-Qajar Honorary Scholarship in Middle East Studies,” made available in perpetuity to students in the Middle East Studies Program by a generous donation of Mr. and Mrs. Fred Jamner in honor of the founder of the Middle East Studies Program at SBCC, Dr. Manoutchehr Eskandari-Qajar; the “Gene Knudsen Hoffman Middle East Studies Scholarship,” made available through a permanent endowment by Mrs. Lessie Sinclair Nixon in honor of Gene Knudsen Hoffman; and the “Madeleine and Peter Jacobson Middle East Scholarship,” made available in perpetuity by a generous donation by Mr. and Mrs. Jacobson. Details on how to qualify and apply for these prestigious scholarships can be obtained at the Financial Aid Office in the Student Services Building (East Campus), or by calling ext. 2716.

**Study Abroad Programs**

Every two years, the Middle East Studies Program arranges a Study Abroad program to the Middle East through the SBCC Study Abroad Office. The inaugural Semester Abroad Program in Middle East Studies left in Spring of 2007 for Athens and Istanbul. Subsequent programs will be announced through the SBCC Study Abroad Office at regular intervals. All SBCC students in good standing qualify to apply. A number of scholarships in various amounts are available for this Study Abroad program. For details, contact the SBCC Study Abroad Office at ext. 2494 or 2243.

**Transfer Opportunities**

SBCC’s Middle East Studies Program is fully articulated with the UC and CSU systems. Students in the program will have satisfied most if not all lower division requirements for the respective majors at four-year schools, such as UCSB’s Islamic and Near Eastern Studies Program and major. For transfer details consult with the Counseling Center in the Student Services Building, Room 120, ext. 2285.

**Student Participation**

The Middle East Studies Club (MESC) is a student organization which meets regularly during the semester and plans programs designed to involve the student community in political issues dealing with the Middle East. For further information, contact Dr. M. M. Eskandari-Qajar, ext. 2435.

**Middle East Studies Courses**

**ARBC 101 — Beginning Modern Standard Arabic I**
(5) — CSU, UC

*Skills Advisories: Eligibility for ENG 110 or 110H*

*Hours: 90 lecture*

Essentials of spoken and written Modern Standard Arabic for the beginner. Provides an introduction to the culture of Arabic speakers.

**ARBC 102 — Beginning Modern Standard Arabic II**
(5) — CSU, UC

*Prerequisites: ARBC 101 or two years of high school Arabic with a minimum grade of “C” or qualifying score on SBCC SoML placement exam. Skills Advisories: Eligibility for ENG 110 or 110H Hours: 90 lecture*

Continuation of Modern Standard Arabic 101. Focuses on the essentials of the spoken and written language for the beginner and provides an introduction to the culture of Arabic speakers.

**ART 216 — Survey of Islamic Art and Architecture**
(3) — CSU, UC

*Skills Advisories: Eligibility for ENG 110 or 110H Hours: 54 lecture*

Survey of Islamic arts and architecture from Asia and North Africa to Spain, from the era of Muhammad to the Mughal Empire of the 18th century C.E. The main emphasis is on the regional artistic manifestations of the vast Islamic world. Analyzes how intercultural and trade relations between Europe and the Islamic world have influenced Islamic art.
HEBR 101 — Beginning Modern Hebrew I
(5) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 90 lecture
Beginning course on reading, grammar, syntax and the essentials of spoken and written Modern Hebrew. Provides and introduction to the culture of Hebrew speakers.

HEBR 102 — Beginning Modern Hebrew II
(5) — CSU, UC
Prerequisites: HEBR 101 or two years of high school Hebrew with a minimum grade of “C” or qualifying score on SBCC SoML placement exam.
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 90 lecture
Continuation of HEBR 101. Focuses on the essentials of spoken and written Modern Hebrew for the beginner and provides and introduction to the culture of Hebrew speakers.

HIST 137 — History of Religions of the Middle East
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Introduction to the history of the three major religious traditions of the Middle East: Judaism, Christianity and Islam in comparative perspective, as well as exploring the historical context of religion in the Middle East.

HIST 138 — History of Modern Middle East
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Recent and contemporary history of the Middle East that examines the roots of the present political, cultural and economic situation in this crucial part of the world.

MUS 119 — Middle Eastern Music, Dance and Culture
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 103
Hours: 54 lecture
Introduction to Middle Eastern music and dance in both lecture and practical settings, emphasizing combinations and choreographies for various folk and classical dances, as well as aspects of music performance in singing on percussion instruments.

POL 136 — Middle East Government and Politics
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Introduction to the comparative study of the governments and politics of the Middle East. Emphasis on the study of the relationship between political development, political organization and social structure and such concepts as tradition, modernity, autocracy, democracy and political transition.
Professional Development Studies

Program Description
Today’s worker is faced not only with ever-increasing technological challenges, but also with the need for applied instruction in a variety of skills, ranging from customer service to personal success issues such as time management. The Professional Development Studies Department houses short, topic- and performance-based workplace learning courses designed to help employers and employees succeed.

Program Student Learning Outcomes
1. Explain key workplace principles and practices and apply them in an organizational context.
2. Define, analyze and solve workplace-related problems and issues.
3. Demonstrate the skills and behaviors that organizational members need to contribute to effective and efficient organizations.
4. Utilize best practices of workplace behavior to support the optimal operation of organizations.

Department Offices
Shelly Dixon, Professional Development Center Director (Wake Campus, (805) 683-8283)
Melissa Moreno, Dean
(Wake Campus, Rm. 1, ext. 8284)

Faculty
Susan Block (BC-208, ext. 2390)
Jill Scala (BC-116, ext. 3793)

Professional Development Studies Courses

PRO 101B — Working with Difficult Behaviors
(0.5 )
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 5.4 lecture/9 lecture
Participants examine how values and behaviors influence others and understand that how one acts and reacts can reduce conflict and strengthen relationships in the workplace.

PRO 102AB — Sharpening Your Business Writing Skills
(0.5 [A], 1.0 [B])
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 9 lecture/18 lecture
Development of effective and professional writing skills requires understanding proper business tone and formatting, along with organizing information for written communications, including letters, memos and e-mail.

PRO 103B — Time Management: Key to Personal Success
(0.5 )
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 9 lecture
Participants identify personal goals and priorities and the difference between “urgent” and “important,” while exploring various time-saving techniques, ensuring that important things get done on time.

PRO 104B — Workplace Communication
(0.5 )
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 9 lecture/
Participants gain understanding of effective speaking and listening skills and analyze non-verbal communication cues, while understanding barriers that prevent effective communication.

PRO 105B — Problem-Solving and Decision-Making
(0.5 [B])
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 9 lecture
Participants gain understanding of problem-solving and decision-making techniques and apply these techniques, either individually or as part of a team.

PRO 106BCD — Leadership Skills for Today’s Workforce
([B] 0.5, [C] 1.0, [D] 2.0)
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 9 lecture/18 lecture/36 lecture
Participants explore principles of effective leadership in today’s workforce, while performing a 360-degree
evaluation of their own leadership practices, resulting in a personal application plan.

**PRO 108ABC — Report, Proposal and Technical Writing**  
(0.3 [A], 0.5 [B], 1.0 [C])  
*Skills Advisories: Eligibility for ENG 98 and 103*  
*Hours: 5.4 lecture/9 lecture/18 lecture*

Practice-based seminar for those who want to improve their skills in writing reports, board letters, memos, proposals and other professional and technical communications.

**PRO 109 — Preventing Workplace Injuries**  
(0.3)  
*Skills Advisories: Eligibility for ENG 98 and 103*  
*Hours: 5.4 lecture*

Participants receive the latest ergonomic information to assist managers and supervisors in recognizing the ergonomic needs of employees, thus preventing work injuries and/or reducing lost time.

**PRO 110BCD — Project Management**  
(0.5 [B], 1.0 [C], 2.0 [D])  
*Skills Advisories: Eligibility for ENG 98 and 103*  
*Hours: 9 lecture/18 lecture/36 lecture*

The ability to design, manage and implement innovative projects is a universal skill necessary for managers of all levels in organizations. On successful completion of this course, the student is able to determine the feasibility of a project and then plan and manage that project, from beginning to end.

**PRO 111AB — Process Improvement and Control**  
(0.5 [A], 1.0 [B])  
*Skills Advisories: Eligibility for ENG 98 and 103*  
*Hours: 9 lecture/18 lecture*

Participants learn to identify causes of problems before trying to solve them, while increasing efficiency in workflow by reducing cycle time, errors and duplication of work.

**PRO 112 — Supervisor and Manager Skills**  
(0.5)  
*Skills Advisories: Eligibility for ENG 98 and 103*  
*Hours: 9 lecture*

Participants learn to balance management expectations with customer relations and needs of co-workers, while winning trust and respect. Supervisory theoretical principles with practical application covered.

**PRO 114B — Motivating Employees**  
(0.5)  
*Skills Advisories: Eligibility for ENG 98 and 103*  
*Hours: 9 lecture*

Participants learn what motivates people and how to use this knowledge to attract and retain top employees with creative reward and recognition programs.

**PRO 115B — Making Teams Work**  
(0.5)  
*Skills Advisories: Eligibility for ENG 98 and 103*  
*Hours: 9 lecture*

How to foster teamwork and help your workgroup function better when you are not in charge.

**PRO 116B — Leading Teams: The Effective Facilitator**  
(0.5)  
*Skills Advisories: Eligibility for ENG 98 and 103*  
*Hours: 9 lecture*

Team leaders interested in building and maintaining effective teams learn to use teams to encourage innovation, communication and employee involvement.

**PRO 117BC — Dealing with Organizational Change**  
(0.5 [B], 1.0 [C])  
*Skills Advisories: Eligibility for ENG 98 and 103*  
*Hours: 9 lecture/18 lecture*

Participants enhance their ability to deal positively and effectively with organizational change. Understanding the change cycle allows participants to utilize their inner resources to manage each stage.

**PRO 118A — The Business of Local Government**  
(0.3)  
*Skills Advisories: Eligibility for ENG 98 and 103*  
*Hours: 5.4 lecture*

Employees cover governmental missions, values and goals. Description of governmental services includes appreciation of diversity, ethics, worker benefits and quality customer service.
PRO 119B — Personality Styles at Work  
(0.5)  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 9 lecture  
Exploration of participants' own behaviors and personality styles, while learning to adapt one's behavior to be effective with other personality styles in a variety of work situations.

PRO 120 — Performance Measurement  
(0.5)  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 9 lecture  
Participants learn to design, write and evaluate recurring performance measures.

PRO 121 — Coaching Skills  
(0.5)  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 9 lecture  
Motivating and assessing the performance of employees. Coaching techniques to solve workplace problems and energize employees.

PRO 123ABC — Powerful Presentations  
(0.3 [A], 0.5 [B], 1.0 [C])  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 5.4 lecture/9 lecture/18 lecture  
Designed for employees who provide formal presentations before boards, commissions and the public, who want to enhance presentation skills and to use visuals and handouts effectively.

PRO 124B — Effective and Efficient Meetings  
(0.5)  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 9 lecture  
Proven techniques to lead or facilitate effective meetings, assuring individual participation, group decision-making and action taken on decisions, while removing barriers and time-wasters.

PRO 125BC — Conflict Resolution  
(0.5 [B], 1.0 [C])  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 9 lecture/18 lecture  
Participants learn the conflict cycle and benefits of proactivity as a conflict management tool. Communication techniques are practiced to enhance skills for negotiation of mutually beneficial outcomes.

PRO 126 — Labor-Management Relations  
(0.5)  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 9 lecture  
Overview of current labor-management issues for supervisors, managers and executives, as well as available resources to assist in the collaborative process.

PRO 128B — Diversity  
(0.5)  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 9 lecture  
Participants gain an understanding of the elements and dimensions of culture to meet the challenges and integrate the strengths of cultural differences in the workplace.

PRO 129AB — Strategic Planning  
(0.5[A], 1.0 [B])  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 9 lecture/18 lecture  
Participants learn to develop a strategic plan and lead in the planning process, as well as discuss the role of ethical behavior in the plan and process.

PRO 130B — Interviewing  
(0.5)  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 9 lecture  
Participants enhance interviewing skills, as well as discuss legal issues related to the interview and application process.

PRO 131AB — Monitoring and Evaluating Employee Performance  
(0.5)  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 9 lecture  
Participants enhance their skills and expand the number of tools that can be used in monitoring and evaluating employee performance.
PRO 132 — Facilitator Institutes Foundations
(1.0)
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 18 lecture
Participants establish group facilitation skills and acquire techniques to assure that group meetings are efficient and effective in the decision-making process.

PRO 133 — Supervisor Institute
(1.0)
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 18 lecture
Participants establish supervisory leadership skills and acquire techniques to enhance communications, motivate staff, and facilitate change within an organization.

PRO 134B — Budgeting Processes
(0.5)
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 9 lecture
Strategies that work beyond basic budgeting. Learn to allocate resources effectively, avoiding “shortfalls.” Practice budgeting strategies for cutbacks and growth. Planning for an economically healthy organization.

PRO 135 — Strategic Communication
(0.5)
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 9 lecture
Learning techniques for effective communication in e-mail, the hallway, impromptu speaking, managing anxiety, and other workplace situations.

PRO 136AB — Successful Negotiation
(0.5/1.0)
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 9 lecture/18 lecture
Techniques of successful negotiating and conflict management. How to positively apply power and influence in the negotiating process. Gaining skills to apply in situations where all parties experience positive outcomes.

PRO 138CD — Personal Planning
(2.0 [C], 3.0 [D])
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 36 lecture/54 lecture
Learning to evaluate a career. How to identify opportunities and evaluate skills, interests and identify needed training for chosen career path.

PRO 139BC — Workplace Innovation
(0.5 [B], 1.0 [C])
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 9 lecture/18 lecture
Learning to create an environment for creativity and innovation, while managing fear of change. Techniques for linking change, growth and fluidity with fun, excitement and a future.

PRO 140 — Managing Priorities
(0.5)
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 9 lecture
Too much to do and not enough time or resources? Learning to avoid crises, procrastination, missed deadlines, over-meeting and unnecessary interruptions.

PRO 141AB — Using Good Judgment
(0.5 [A], 1.0 [B])
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 9 lecture/18 lecture
Learning to establish a guideline for decision-making, and evaluating the impact of long- and short-term decisions; and how to use good judgment in dealing with others.

PRO 144B — Assertion Skills
(0.5)
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 9 lecture
Learning assertion theory, techniques and rationale for integrating assertive behavior in the workplace.

PRO 150B — Exceptional Customer Service
(0.5)
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 9 lecture
Teaches the participant valuable tips on how to connect with the customer and provide the “desired” response, both in person and on the telephone.

PRO 151B — Attitude for Success
(0.5)
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 9 lecture
Good business etiquette and attitude are essential for maintaining one’s job and moving ahead. Punctuality, positive communication and workplace taboos are discussed.

PRO 152B — Criticism and Difficult People
(0.5)
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 9 lecture
Receiving criticism and encountering difficult people are part of every job. Learn how to keep cool under fire, respond calmly, and deal with negative or aggressive co-workers.

PRO 153 — Supervision: Developing Skills for Success
(0.5)
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 9 lecture
Designed for the first-time supervisor, with an emphasis on the functions of management, involving planning, organizing, leading, active listening and controlling.

PRO 155 — Generations at Work and Effective Teamwork
(0.5)
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 9 lecture
The workplace is increasingly diverse and team-oriented. Learn how to best utilize and work with all the different generations in our current workforce.

PRO 157BC — Money Management
(0.5 [B], 1.0 [C])
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 9 lecture/18 lecture
Learn about developing a personal spending plan, estimating expenses, the importance of staying on a budget, how to develop credit, and the pitfalls of credit cards.

PRO 160A–D — Covey’s Seven Habits
(0.5–2.0)
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 9 lecture/36 lecture
The evolution of leadership through current post-modern models. Focus on applying principles of effectiveness to empower individuals, groups and organization leaders to meet daily challenges.

PRO 161D — Topics in Fund Development
(0.5)
Skills Advisories: Eligibility for ENG 98
Hours: 9 lecture
Concepts and principles of effective fundraising and sustained fund development are presented, as well as roles and responsibilities of fund developers.

PRO 163ABCD — Covey’s 7 Habits for Managers
(0.5 [A], 1.0 [B], 1.5 [C], 2.0 [D])
Skills Advisories: Eligibility for ENG 98
Hours: 9 lecture/18 lecture/27 lecture/36 lecture
Using the management applications of Covey’s 7 Habits, provides managers with the tools to take initiative, resolve conflicts, and unleash the talents of their teams.

PRO 164B — Personal Accountability
(0.5)
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 9 lecture
Empowering oneself to take responsibility for situations, be proactive, communicate positively, and look for alternative solutions.

PRO 165AB — Covey’s Leadership
(1.0 [A], 2.0 [B])
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 18 lecture/36 lecture
In today’s competitive and rapidly evolving environment, great leaders are expected to achieve success. Explores and develops the skill set and characteristics that make a great leader, and demonstrates how this translates into great teams and superior results in the business environment.

PRO 167BC — Proposals and Presentations
(0.5 [B], 1.0 [C])
Skills Advisories: Eligibility for ENG 98 and 103
Course Advisories: COMP 136A
Hours: 9 lecture/18 lecture
Exploration of how to communicate strategically to maximize the chance that your project is accepted and successful. Topics include business proposals; writing for executives; informal conversations; elevator pitches; strategy and politics; formal PowerPoint presentations; and how to know when each type of communication is appropriate.
PRO 168B — Thrive and Survive at Work
(0.5)
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 9 lecture
Focuses on the qualities that employers desire in employees and what it takes to thrive and survive in the workplace. Attitude, communication and work ethics are stressed.

PRO 169A — Growing Your Business
(0.5)
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 9 lecture
How to grow your business to the next level. Distribution strategy, budgeting, pricing, competition and employee issues are covered.

PRO 169B — Growing Your Business
(1.0)
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 18 lecture
Techniques for current small business owners and entrepreneurs to grow their business. Topics covered: distribution strategies, projections, finance, competition, pricing and employees.

PRO 169C — Growing Your Business
(2.0)
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 36 lecture
How to grow your business to the next level. Topics covered: distribution strategies, budgets and projections, competition, target market, pricing, positioning and employee issues. Optimal corporate structure, capital structure and legal considerations are also covered.

PRO 170 — Teaching Seminar
(3)
Hours: 5.4 lecture
Comprehensive orientation to teaching at Santa Barbara City College, as well as information on pedagogy, support services, teaching with technology, and the mission of the community college.

PRO 171 — Teaching and Learning Online
(3)
Hours: 54 lecture
Participants acquire a comprehensive understanding of what is needed to teach online. They become skilled at applying the pedagogy of active learning, adept at teaching with technology, and learn to incorporate the major findings of student success research into their course design and content.

PRO 172AB — Positive Workplace Politics and Ethical Influence
(0.3 [A], 0.5 [B])
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 5.4 lecture/9 lecture
Learn constructive workplace political behavior and ethical influence to create more win-win situations, unblock barriers to change, create greater “buy-in” on key projects, produce more organizational cohesion and speed up decision-making.

PRO 180 — Strategic Sales
(0.5)
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 9 lecture
Everyday consumers and businesses must buy products this course helps you plan the appropriate sales strategy to match your product and customer base so they choose your product over that of your competitors.

PRO 182 — Developing Online Sales Channels
(0.5)
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 9 lecture
Develop channels and learn tools to increase product visibility and gain additional customers and sales using web-based content-including webinars.

PRO 184 — Inside Sales - Selling From Your Desk
(0.5)
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 9 lecture
More and more sales are now being done “inside” with salespersons contacting perspective buyers using the phone and e-mail. Learn how to maximize this revenue source and increase the effectiveness of “inside” sales.
PRO 186 — Customer Validation and Minimally Viable Product
(0.5)
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 9 lecture

How do you know if your product really fits what the customer needs and that your business idea is one that can be repeated and scaled to be profitable? Use customer feedback to define your product and determine the ability to grow the revenue and scale it to be profitable.

PRO 290 — Work Experience in Professional Development Studies
(1-4)
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 18 lecture/72 lecture

Consists of supervised employment for students whose career objectives, course of study and employment complement each other. Students must accomplish specific course objectives.

PRO 292 — Service Learning Experience
(0.5-4) — CSU
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 30-240 lab

Consists of community-based volunteer experience, plus two scheduled office hours and other conference hours. Supervised volunteerism of students with the goal of experiential learning, improved self-esteem and career awareness acquired in community and public service settings. Volunteer positions need not be related to students’ educational goals or college major. Students follow agencies’ policies, rules and regulations; write learning objectives; keep a record of time worked; complete a student data sheet; and secure agency supervisor’s evaluation at the end of the semester.
Psychology

Degrees
Associate in Arts Degree: Psychology
Associate in Arts Degree (AA-T): Psychology for Transfer

Program Description
Psychology is the social science discipline most concerned with studying the behavior, mental processes, growth and well-being of individuals. Psychological inquiry also examines the roles played by biological and sociocultural factors that affect behavior and mental processes. It is a broad discipline and profession, having both scientific and applied branches, with practical applications for personal growth and well-being.

The Psychology curriculum at Santa Barbara City College is designed to provide students with courses needed to prepare for transfer as a Psychology major, to offer courses which are a valuable part of general education, to provide support and ancillary skills for many professions that deal with humans, and to offer studies which are meant to be applied to practical everyday living experiences.

Students who complete the Psychology major enter a variety of career fields and/or graduate programs, including business administration, law, recreation, social work, education, counseling, clinical psychology, industrial/organizational psychology, neuroscience, forensic science, communications, health psychology, management, personnel, sports psychology, sales, advertising, marketing and many others. It is important to keep in mind that many of these professional careers require training beyond the undergraduate level. Students with such interests should discuss their plans with a counselor or department adviser as early as possible.

The Psychology Department at Santa Barbara City College offers an AA Degree in Psychology which provides students with the foundational knowledge in psychology theory, research and statistical methods and prepares them to make a successful transition into a Baccalaureate Degree in Psychology at any four-year institution.

In addition, the Psychology Department offers an AA-T Degree in Psychology for Transfer. This degree will provide the foundational knowledge in Psychology to students who want to earn a Baccalaureate Degree in Psychology. This degree is in compliance with the Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code Sections 66746-66749) and guarantees admission to a California State University (CSU) campus for any community college student who completes an “associate degree for transfer,” a newly established variation of the associate degrees traditionally offered at a California community college. Upon completion of the transfer associate degree, the student is eligible for transfer with junior standing into the California State University (CSU) system. Students will be given priority consideration when applying to a particular program that is similar to the student’s community college area of emphasis. For the latest information about transfer degrees, visit www.sb1440.org.

Program Student Learning Outcomes
1. Theory and Content of Psychology: Students will demonstrate comprehension of the major concepts, theoretical perspectives, empirical findings, and historical and contemporary trends in psychology.
2. Research Methods in Psychology: Students will demonstrate comprehension of scientifically-based research methods in psychology.
3. Statistical Methods in Psychology: Students will identify, understand and apply statistical analyses appropriate for specific research problems in psychology.
4. Information Technology: Students will demonstrate competence with information technology.
5. Critical Thinking: Students will use logic and empirical evidence to evaluate claims made about behavior.
6. Communication: Students will clearly express thoughts, ideas and arguments, using appropriate tone, focus, grammar and organization in their communications.

Faculty and Offices
Joshua Ramirez, Chair (IDC-329B, ext. 3712)
Stanley Bursten (IDC-347, ext. 4713)
Art Olguin (ECOC-2, Rm. 4, ext. 2700)
AA Degree: Psychology

Department Requirements (20-24 units)

Core Classes
PSY 100 — General Psychology or
   PSY 100H — General Psychology, Honors .................................. 3-4
PSY 150 — Statistics for Behavioral Sciences .................................. 4
PSY 200 — Research Methods and
   Experimental Design in Psychology ........................................ 4
Social Science Electives (either option A or B) .................................. 9

Option A (select 9 units):
PSY 110 — Introduction to Physiological Psychology .................. 3
PSY 125 — Psychology of Human Sexuality .............................. 4
PSY 130 — Personality Dynamics and Effective Behavior ................ 3
PSY 140 — Child Development ................................................. 3
PSY 145 — Human Development .............................................. 3
PSY 170 — Abnormal Psychology ............................................. 4
PSY 175 — Social Psychology:
   Psychological Perspectives ............................................... 3

Option B
Psychology Electives (6 units):
PSY 110 — Introduction to Physiological Psychology .................. 3
PSY 125 — Psychology of Human Sexuality .............................. 4
PSY 130 — Personality Dynamics and Effective Behavior ................ 3
PSY 140 — Child Development ................................................. 3
PSY 145 — Human Development .............................................. 3
PSY 170 — Abnormal Psychology ............................................. 4
PSY 175 — Social Psychology:
   Psychological Perspectives ............................................... 3

Social/Behavioral Sciences Electives (3 units):
*ANTH 101 — Physical Anthropology or .................................. 3
   ANTH 101H — Physical Anthropology, Honors .......................... 4
ANTH 103 — Introduction to Cultural Anthropology or .............. 3
COMM 101 — Introduction to Communication or ...................... 3
PHIL 100 — Introduction to Philosophy or ............................... 3
   PHIL 100H — Introduction to Philosophy ............................... 4
   PHIL 111 — Critical Thinking and Writing in Philosophy or .......... 3
SOC 101 — Introduction to Sociology or ................................. 3
SOC 101H — Introduction to Sociology, Honors .......................... 4
*Satisfies SBCC GE Area A only if ANTH 101L is also completed.

College Requirements
For complete information, see “Graduation Requirements” in the Catalog Index.

Sample Program for Degree

First Semester
PSY 100 or 100H or Elective

Second Semester
PSY 100 or 100H plus Elective

Third Semester
PSY 150 plus Elective

Fourth Semester
PSY 200 plus Elective

Preparation for Transfer
Course requirements for transfer vary depending upon
the college or university a student wishes to attend. Therefore, it is most important for a student to consult
with his/her counselor and departmental adviser before
planning an academic program for transfer. Information
sheets for majors, outlining transfer requirements, are
available in the Counseling Center.

Requirements for AA-T Degree—
Psychology for Transfer
The Associate in Arts Degree in Psychology for
Transfer provides students with the foundational
knowledge in Psychology to make a successful
transition into a Baccalaureate Degree in Psychology
at any of the CSU campuses.

Degree Requirements
Complete 60 CSU-transferable units including General
Education, major requirements and CSU-transferable
electives as follows:
# 530 Psychology

## I. General Education

**Complete one of the following patterns**

- Intersegmental General Education Transfer Curriculum "IGETC" for CSU (38 semester units)
- California State University General Education Breadth pattern (40 semester units)

## II. Major

Complete 20-25 units as outlined below with a “C” or better in each course. Pass/No Pass grading is not permitted in a course within a student’s major area of study. The courses completed for the major may also be used to fulfill General Education areas on the IGETC or the CSU GE Breadth.

### Required Core Courses (11-12 units):

- PSY 100 — General Psychology or ...3
- PSY 100H — General Psychology, Honors ...4
- PSY 150 — Statistics for the Behavioral Sciences or ...4
- MATH 117 — Elementary Statistics or ...4
- MATH 117H — Elementary Statistics, Honors ...4
- PSY 200 — Research Methods and Experimental Design in Psychology ...4

### Electives List A: Select one course from the following (3-4 units):

- BIOL 100 — Concepts of Biology or ...4
- BIOL 140 — Principles of Biology or ...3
- PSY 110 — Introduction to Physiological Psychology...3

### Electives List B: Select one course from the following (3-4 units):

*Any course not taken in List A or List B*

- BMS 107 — Human Anatomy ........4
- COMM 121 — Interpersonal Communication or ...3
- COMM 121H — Interpersonal Communication, Honors ...3
- COMM 141 — Small Group Communication ...3
- ECE 120 — Child Growth and Development for Educators ...3
- PHIL 111 — Critical Thinking and Writing in Philosophy ...3
- PSY 140 — Child Development ...3
- PSY 145 — Human Development ...3
- SOC 101 — Introduction to Sociology or ...3

### Electives List C: Select one course from the following (3-5 units):

- SOC 101H — Introduction to Sociology, Honors ...3
- SOC 104 — Social Psychology ...3
- SOC 109 — Contemporary Social Problems ...3

- PSY 106 — Positive Psychology ...3
- PSY 115 — Psychology of Health and Effective Behavior ...3
- PSY 125 — Psychology of Human Sexuality ...3
- PSY 130 — Personality Dynamics and Effective Behavior ...3
- PSY 135 — Psychology of Film ...3
- PSY 170 — Abnormal Psychology ...4
- PSY 175 — Social Psychology: Psychological Perspectives ...3
- ANTH 101 — Physical Anthropology or ...3
- ANTH 101H — Physical Anthropology, Honors ...4
- ANTH 103 — Cultural Anthropology ...3
- BIOL 110 — Natural Science or ...3
- BIOL 110H — Natural Science, Honors ...4
- BIOL 112 — Evolution and Adaptation ...3
- BMS 100 — The Human Body ...4
- BMS 108 — Human Physiology ...4
- CHEM 101 — Introductory Chemistry ...4
- CHEM 104 — Fundamentals of General, Organic and Biological Chemistry ...4
- CHEM 155 — General Chemistry I ...5
- ECON 108 — Fundamentals of Economics ...3
- ERTH 101 — Introductory Astronomy or ...3
- ERTH 101H — Introductory Astronomy, Honors ...4
- GEOG 101 — Physical Geography ...3
- GEOG 102 — Human Geography ...3
- PHIL 100 — Introduction to Philosophy or ...3
- PHIL 100H — Introduction to Philosophy, Honors ...4
- PHIL 101 — Introduction to Ethics or ...3
- PHIL 101H — Introduction to Ethics, Honors ...4
- PHIL 200 — History of Philosophy: Ancient and Medieval ...3
PHIL 201 — History of Philosophy: Modern .......................... 3
PHIL 203 — History of Philosophy: Contemporary ............... 3
PHIL 205 — Introduction to Logic ........................................ 3
PHYS 101 — Conceptual Physics or ................................. 3
    PHYS 102 — Introductory Physics for Science Majors ....... 4
PHYS 105 — General Physics ............................................. 4
PHYS 110 — Introductory Physics ....................................... 4
POLS 101 — American Government and Politics ................. 3
POLS 131 — Comparative Politics ...................................... 3
ZOOL 122 — Animal Diversity ......................................... 3

III. CSU-Transferable Electives
Complete as many units as needed to reach a total of 60 CSU-transferable units (for a list of SBCC-transferable courses to the CSU, visit www.assist.org).

Additional Graduation Requirements for AA-T in Psychology:
- Maintain a cumulative CSU-transferable GPA of 2.0.
- Residency Requirements: Candidates for an Associate Degree are expected to complete 15 semester units in residence at SBCC. Candidates for an Associate Degree are also expected to complete at least 20% of the department (major) requirements in residence at SBCC.

Association for Psychology Students
The Psychology Department sponsors a student organization, the Association for Psychology Students (A.P.S.), whose purpose is to encourage students’ intellectual, social and professional development in psychology and to educate them on practical applications in the field. Any currently enrolled Santa Barbara City College student interested in advancing the goals of the organization is qualified to be a member. The group sponsors lectures, films, field trips, conferences and social activities aimed at advancing students’ success in the field of psychology.

Internship Program
The Psychology Department has an Internship program whereby students gain work experience in community settings and/or research laboratories while receiving academic credit. Satisfactory completion of specific job-oriented and educational learning objectives and class attendance are essential requirements of the program.

Tutorial Opportunities
Each semester, the department hires student tutors to assist other students in their psychology coursework. Students who have strong academic performance and an interest in teaching are selected to serve as tutors.

Honors and Awards
The Psychology Department selects one student majoring in Psychology to be the Outstanding Student in Psychology for the year. Selection is made by the faculty based on a student’s academic excellence and contributions to the college and/or community. The Outstanding Student in Psychology is honored at an annual Awards Banquet hosted by the college.

Psychology Courses
PSY 100 — General Psychology
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture

Psychology is the scientific study of behavior and mental processes. This survey course serves as a foundation for further studies in psychology. Theories and research pertaining to the biological basis of behavior, human development, perception, emotions, learning, cognition, consciousness, intelligence, motivation, personality, social influences on behavior, mental disorders and psychotherapy are covered. (*UC Transfer Limit: PSY 100, 100H and 120 combined: maximum credit, one course)

PSY 100H — General Psychology, Honors
(4) — CSU, UC
Limitation on Enrollment: Honors Program Acceptance
Skills Advisories: Eligibility for ENG 110 or 110H;
Proficiency In MATH 104 or 107 or 111
Hours: 72 lecture

Survey of psychology as a science. Principles of behavior, maturation, emotions, intelligence, learning, thinking, motivation and personality are some of the many topics covered. This Honors class emphasizes the development of creative application and critical analyses of these behavioral principles. (*UC Transfer Limit: PSY 100, 100H and 120 combined: maximum credit, one course)
PSY 100N — Supplemental Instruction in General Psychology
(0.5-1) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 16-18 lecture
Supplemental instruction designed to develop greater understanding of principles of psychology, human behavior and mental processes.

PSY 105 — Applied Behavior Analysis
(2) — CSU
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 36 lecture
Basic concepts of behavior analysis, and application of these principles to various life domains (increasing physical activity, athletic performance, coaching, education, substance-dependence, psychotherapeutic treatment). Single-subject research methods, and social, ethical and professional issues relevant to applied behavior analysis.

PSY 106 — Positive Psychology
(3) — CSU, UC
Prerequisites: PSY 100 or 100H
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Scientific study of psychological strengths and optimal functioning, including (1) positive subjective states such as happiness, joy, satisfaction and contentment; (2) positive individual traits such as courage, honesty, kindness, and wisdom; and (3) positive institutions such as healthy families, work environments and communities.

PSY 110 — Introduction to Physiological Psychology
(3) — CSU, UC
Prerequisites: PSY 100 or 100H
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Elementary physiology of the nervous system. Physiological mechanisms underlying sensation, perception, emotion, arousal, motivation, learning and cortical specialization. Function of the endocrine system. Intended primarily for Psychology majors as part of the lower division pre-major pattern. Also useful for students in Allied Health fields.

PSY 115 — Psychology of Health and Effective Behavior
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture
Issues in personal and social adjustment to prepare students for a lifelong understanding of themselves as integrated persons. Study of personality, personal development, psychological and physical aspects of stress and health, abnormal behavior, coping skills, therapy, interpersonal communication, intimacy, family relationships, gender issues, and effective functioning at work and as a parent.

PSY 120 — Introduction to Psychology
(3) — CSU, UC*
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 lecture
Introduces students to the general field of psychology. Examines basic principles of human behavior and how they may be applied effectively in daily living situations. (*UC Transfer Limit: PSY 100, 100H and 120 combined: maximum credit, one course)

PSY 125 — Psychology of Human Sexuality
(4) — CSU, UC*
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: PSY 100 or 100H
Hours: 72 lecture
Focuses on the major aspects of human sexuality: psychological perspectives, research findings, human sexual response cycles, gender differentiation, sexuality through the life course and diversity in human sexuality. In addition, communication and relationship dynamics; love, romance and dating patterns; birth control, pregnancy and parenthood; sexual dysfunction and treatment; and the issues of sexual abuse and harassment. (*UC Transfer Limit: PSY 125 and HE 111 combined: maximum credit, one course)

PSY 130 — Personality Dynamics and Effective Behavior
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Course Advisories: PSY 100 or 100H
Hours: 54 lecture
Personality theory, assessment and development, interpersonal communications, abnormal behavior, mental
hygiene and psychotherapy. Study of psychological systems. Intended for either Psychology majors or as a useful elective for vocations dealing with people. Also includes mental health principles for personal growth.

**PSY 135 — Psychology of Film**  
(3) — CSU, UC  
Corequisites: Prior to or concurrent enrollment PSY 100 or 100H  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture

Introduction to human psychological behavior, as portrayed through the medium of film. Students view and analyze films and discuss how filmmakers achieve psychological reactions in their audience members. Topics include human personality and development of individual differences; motivation; learning; memory; sensation and perception; physical, emotional and social development; abnormal behavior; aggression; and interpersonal relationships.

**PSY 140 — Child Development**  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 54 lecture

History and philosophy of care and development of the child from conception through adolescence, with emphasis on the nursery and elementary school-age child. Studies include children’s developmental characteristics, records of children’s growth, individual differences, personality development and signs of physical or emotional disturbance. Emphasis is on the healthy normally-developing child. Includes child observation and reporting.

**PSY 145 — Human Development**  
(3) — CSU, UC  
Course Advisories: PSY 100 or 100H or 120  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture

Provides an overview, from a psychological perspective, of human physical, cognitive and social development, as well as developmental problems, and the biological and environmental influences on development, from conception through death. Examines the theories, research findings and methodological approaches to human development through the life span.

**PSY 150 — Statistics for the Behavioral Sciences**  
(4) — CSU, UC*  
Prerequisites: MATH 107 or 111 with a “C” or better or qualifying score on SBCC placement exam.  
Course Advisories: PSY 100 or 100H  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 72 lecture

General Education course in statistics that is useful for all majors in the behavioral and life sciences. Introduces the principles and procedures of measurement, data base management, data analysis, probability, sampling theory and statistical inference. Covers Descriptive Statistics: measurement scales, frequency distributions, measures of central tendency, measures of variability, measures of linear relationships; and Inferential Statistics: logic of hypothesis testing, z-tests, independent-samples and dependent-samples t-tests.  
(*UC Transfer Limit: PSY 150 combined with MATH 117 or 117H: maximum credit, one course)

**PSY 170 — Abnormal Psychology**  
(4) — CSU, UC  
Prerequisites: PSY 100 or 100H  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 72 lecture

Introduction to assessment, diagnosis, treatment, research and prevention of mental disorders. Covers the major DSM disorders, including the phenomenology, etiology and treatment of anxiety, affective, dissociative, somatoform, psychophysiological, schizophrenic, sexual dysfunctions, paraphilias and gender identity disorder; substance-related; impulse-control; developmental, cognitive and personality disorders. Theories, therapies, research, legal and social issues are addressed.

**PSY 175 — Social Psychology:**  
Psychological Perspective  
(3) — CSU, UC  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 54 lecture

Studies how our thoughts, feelings and behavior are influenced by others. It takes a scientific approach, emphasizing that behavior is strongly influenced by social situations. Topics covered are the self; social cognition; attitudes and prejudice; social influences of culture; persuasive techniques; groups; relationships; aggression; and pro-social actions.
PSY 200 — Research Methods and Experimental Design in Psychology  
(4) — CSU, UC  
Prerequisites: PSY 100 or 100H and 150 or MATH 117 or 117H  
Skills Advisories: Eligibility for ENG 110 or 110H  
Hours: 108 (54 lecture, 54 lab)  
The logic of and empirical procedures used in psychological research, with emphasis on experimental, quasi-experimental and correlational research methods. Covers ethical principles used to guide research. Includes practical applications of descriptive and inferential statistics. Students analyze research studies, participate in designing and conducting a research project, and write an APA research report.

PSY 295 — Internship in Psychology  
(1-4) — CSU  
Skills Advisories: Eligibility for ENG 110 or 110H  
Limitation on Enrollment: Completion of two courses in applicable discipline at SBCC prior to enrolling in Internship course.  
5-20 lab hours per week (plus weekly meeting with instructor).  
Hours: 108-273 lab  
Structured Internship program whereby students gain work experience in clinical and community outreach programs and/or research laboratories.

PSY 299 — Independent Study in Psychology  
(1-4) — CSU  
Skills Advisories: Eligibility for ENG 110 or 110H  
Limitation on Enrollment: Six units of Psychology with a 3.0 or above GPA; minimum 12 units of course work completed at SBCC, with a GPA of at least 2.5.  
Hours: 48-192 lab  
Student works under guidance and direction of sponsoring faculty member on project consistent with interests and abilities. Minimal weekly meetings required. May be taken for one to four (4) units of credit. For complete information, see “Independent Study” in the Catalog Index. (*UC Transfer Limit: PSY 299 computed as Independent Study; see counselor)
Sociology

Degrees
Associate in Arts Degree: Sociology
Associate in Arts Degree (AA-T):
  Sociology for Transfer

Program Description
Sociology is the study of society and social life, and as such, looks at a diverse range of topics concerning the social causes and consequences of human behavior. Few disciplines are as broad in scope and relevance as is sociology. Sociologists examine the structure of groups, organizations and societies as a whole, as well as how people act and interact within those social contexts. Sociology is a rapidly evolving and ever-expanding discipline that is particularly well suited to addressing issues and problems in a fast-paced and complex contemporary world.

Sociology provides many distinctive perspectives on the social world that can help students to gain a better understanding of themselves and the society of which they are a part. The field features a range of theoretical approaches that can generate new ideas, stimulate debate and challenge taken-for-granted notions about the nature of social reality and the status quo. The field also offers a range of research methodologies that allow for systematic and scientific investigation of social phenomena, rather than using common sense, propaganda, opinion or other such subjective explanations for human behavior.

Sociological theories and methods can be applied to studying virtually any aspect of social life: culture and technology; crime and deviance; politics and economics; the self and socialization; family and group dynamics; class, race and gender; social movements and social change.

The goal of the Sociology Program at Santa Barbara City College is to prepare students to deal with their own everyday life, as well as to meet the greater challenges of membership in the larger society. Sociology can contribute to the personal development of students, while also encouraging active and informed participation in the social and cultural life of their communities. Students can learn to transcend limited, culturally bound understandings to arrive at deeper insights into themselves and others, and to create positive change in the world in which they live.

Sociology is oriented toward stimulating the curiosity and intellects of those interested in academic fields, as well as toward building the skills and understandings necessary for success in a wide range of professional fields. Students majoring in sociology have established careers in such areas as law and government, urban planning, business administration, social welfare, health and education, counseling and human resources, advertising and marketing, public relations and the media, and the nonprofit sector.

The Sociology Department at Santa Barbara City College currently offers an AA Degree in Sociology which provides students with the foundational knowledge in sociological theory, research and methods and prepares them to make a successful transition into a baccalaureate degree in sociology at any four-year institution. In addition, the Sociology Department offers an AA-T Degree in Sociology for Transfer. This degree will provide the foundational knowledge in sociology to students who want to earn a baccalaureate degree in sociology. This degree is in compliance with the Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code Sections 66746-66749) and guarantees admission to a California State University (CSU) campus for any community college student who completes an “associate degree for transfer,” a newly established variation of the associate degrees traditionally offered at a California community college. Upon completion of the transfer associate degree, the student is eligible for transfer with junior standing into the California State University (CSU) system. Students will be given priority consideration when applying to a particular program that is similar to the student’s community college area of emphasis. For the latest information about transfer degrees, visit www.sb1440.org.

Program Student Learning Outcomes
1. Explain the major theoretical perspectives in sociology and apply them to the analysis of social phenomena.
2. Describe the key concepts associated with one or more substantive areas of the discipline, and apply them to an analysis of social phenomena.
3. Analyze the role of social forces in shaping the individual.
4. Explain how individuals create and sustain society through collective action.
5. Define the role of social institutions in society.
6. Explain how structures and processes of social inequality across such dimensions as class, race and gender influence the life experiences of individuals.
7. Utilize a variety of research methods to collect data and to produce original written work, according to social scientific standards.
8. Discuss the ethical standards that guide research in the social sciences.

Faculty and Offices
Phyllisa Eisentraut, Chair (IDC-369, ext. 4745)
Patrick O’Brien (IDC-362, ext. 4039)
Jill Stein (IDC-370, ext. 3051, steinj@sbcc.edu)
Alice Perez, Dean (A-118, ext. 2354)

AA Degree: Sociology
Department Requirements (18-19 units)
ANTH 103 — Introduction to Cultural Anthropology ............ 3
SOC 101 — Introduction to Sociology or ......................... 3
SOC 101H — Introduction to Sociology, Honors ............... 4
SOC 104 — Social Psychology ........................................ 3

Plus three of the following:
SOC 103 — Marriage, Family and Intimacy ...................... 3
SOC 106 — Sociology of Deviance ................................... 3
SOC 109 — Contemporary Social Problems ...................... 3
SOC 113 — Sociology of Sex and Gender ........................... 3
SOC 115 — Introduction to Social Research ...................... 3
SOC 118 — Media, Culture and Society ............................ 3
SOC 120 — Introduction to Social Work ............................ 3

College Requirements
For complete information, see “Graduation Requirements” in the Catalog Index.

Requirements for AA-T Degree—Sociology for Transfer
The Associate in Arts Degree in Sociology for Transfer provides students with the foundational knowledge in Sociology to make a successful transition into a Baccalaureate Degree in Sociology at any of the CSU campuses.

Degree Requirements
Complete 60 CSU-transferable units including General Education, major requirements and CSU-transferable electives as follows:

I. General Education
Complete one of the following patterns
- Intersegmental General Education Transfer Curriculum “IGETC” for CSU (34-40 semester units)
- California State University General Education Breadth pattern (39 semester units)

II. Major
Complete 18-23 units as outlined below with a “C” or better in each course. Pass/No Pass grading is not permitted in a course within a student’s major area of study. The courses completed for the major may also be used to fulfill General Education areas on the IGETC or the CSU GE Breadth.

Core Course
Complete one of the following courses (3-4 units):
SOC 101 — Introduction to Sociology or ......................... 3
SOC 101H — Introduction to Sociology, Honors ............... 4

List A: Select two courses from the following (6-7 units):
PSY 150 — Statistics for the Behavioral Sciences or ........ 4
MATH 117 — Elementary Statistics or ............................ 4
MATH 117H — Elementary Statistics, Honors ................. 4
SOC 109 — Contemporary Social Problems ...................... 3
SOC 115 — Introduction to Social Research ...................... 3

List B: Select two courses from the following (6-8 units):
Any List A course not used above and/or
ETHS 101 — The Immigrant Experience in the U.S. or
ETHS 101H — The Immigrant Experience in the U.S., Honors or
HIST 114 — The Immigrant Experience in the U.S. or
HIST 114H — The Immigrant Experience in the U.S., Honors ................................................................. 3-4
ETHS 107 — Racism in America or ................................. 3
SOC 107 — Racism in America ...................................... 3
SOC 104 — Social Psychology or
PSY 175 — Social Psychology: Psychological Perspectives ......................................................... 3
SOC 106 — Sociology of Deviance ................................................................. 3
SOC 113 — Sociology of Sex and Gender ......................................................... 3

List C: Select one course from the following (3-4 units):
- Any List A or List B course not used above or
- AJ 101 — Introduction to Administration of Justice ......................................................... 3
- AJ 125 — Introduction to Criminology ........................................................................ 3
- ANTH 103 — Cultural Anthropology ............................................................ 3
- ANTH 109 — Comparative World Cultures ......................................................... 3
- ASAM 101 — Comparative Asian-American History, 1849 to 1965 ...................... 3
- ASAM 102 — Contemporary Asian-American History ............................................ 3
- BLST 101 — The African-American in U.S. History to WWII ................................. 3
- BLST 102 — The African-American in U.S. History, Civil Rights to Present or .......... 3
  BLST 102H — The African-American in U.S. History, Civil rights to the Present, Honors ............................................................................................................ 4
- BLST 103 — African-American Culture .......................................................... 3
- CHST 101 — Mexican-American (Chicano) History in the U.S. .............................. 3
- CHST 102 — The Chicano and Latino in U.S. History, 1960-Present ......................... 3
- CHST 103 — Mexican-American (Chicano) Culture ............................................. 3
- CHST 121 — The Chicana and Other Latina Women ............................................ 3
- ECON 102 — Macroeconomics ......................................................................... 3
- ERTH 142 — Economic Geography or
  GEOG 105 — Economic Geography ...................................................................... 3
- ETHS 121 — Women of Color in the U.S. .......................................................... 3
- GEOG 102 — Human Geography ...................................................................... 3
- HIST 101 — History of the U.S. to 1865 ............................................................ 3
- HIST 102 — History of the U.S. since 1865 or
  HIST 102H — History of the U.S. since 1865, Honors ...................................... 3-4
- HIST 104 — History of Western Civilization or
  HIST 113H — History of Western Civilization, Honors ... 3-4
- HIST 108 — World Civilization, 1550-Present .................................................. 3
- NATA 101 — American Indian: Past and Present .............................................. 3
- NATA 103 — Native American Cultural Heritage ............................................. 3
- POLS 101 — American Government and Politics ............................................. 3
- POLS 121 — International Politics ................................................................. 3
- POLS 131 — Comparative Politics .................................................................. 3
- POLS 132 — Political Thinking ...................................................................... 3
- PSY 100 — General Psychology or ................................................................. 3
  PSY 100H — General Psychology, Honors ....................................................... 4
- PSY 120 — Introduction to Psychology .......................................................... 3
- SOC 118 — Introduction to Psychology .......................................................... 3
- SOC 120 — Introduction to Social Work .......................................................... 3

III. CSU-Transferable Electives
Complete as many units as needed to reach a total of 60 CSU-transferable units (for a list of SBCC-transferable courses to the CSU, visit www.assist.org).

Additional Graduation Requirements for AA-T in Sociology:
- Maintain a cumulative CSU-transferable GPA of 2.0.
- Residency Requirements: Candidates for an Associate Degree are expected to complete 15 semester units in residence at SBCC. Candidates for an Associate Degree are also expected to complete at least 20% of the department (major) requirements in residence at SBCC.

Planning a Program of Study
As a general rule it is recommended that students begin their study of sociology by taking Introduction to Sociology (SOC 101 or 101H), though the required courses for the major may be taken in any order. A student planning to major in Sociology should take the two core classes (SOC 101 and 104) and at least three of the more specialized courses in the discipline (SOC 103, 106, 109, 113, 115 or 118). In addition, they are required to take one course in Anthropology (ANTH 103) and one in Philosophy (PHIL 100). Students in the major are also encouraged to become familiar with other related behavioral and social science disciplines.

Preparation for Transfer
Course requirements for transfer vary depending upon the college or university a student wishes to attend.
Therefore, it is most important for a student to consult with a counselor and departmental adviser before planning an academic program for transfer. Information sheets for majors, outlining transfer requirements, are available in the Counseling and Transfer Centers.

**Honors and Awards**

The Sociology Department selects one student majoring in the discipline as the Outstanding Student in Sociology for the year, to be honored at the annual Santa Barbara City College Award Banquet. Selection is made by the faculty, based on academic excellence in sociology and contribution to the department, college and/or community.

**Sociology Courses**

**SOC 101 — Introduction to Sociology**
(3) — CSU, UC*
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture

Introduction to the study of society and everyday life, examining a diverse range of topics on human behavior and social structure. Focus on developing a sociological perspective, through theory and research, to analyze all aspects of social life. Discussion of culture, development of the self, interaction in groups, deviance and social inequality, social institutions and social change. Emphasis on contemporary American society, with global perspective. (*UC Transfer Limit: SOC 101 and 101H combined: maximum credit, one course).

**SOC 101H — Introduction to Sociology, Honors**
(4) — CSU, UC*
Skills Advisories: Eligibility for ENG 110 or 110H
Limitation on Enrollment: Honors Program Acceptance
Hours: 54 lecture

Introduction to the study of society and everyday life, examining a diverse range of topics on human behavior and social structure. Focus on developing a sociological perspective, through theory and research, to analyze all aspects of social life. Discussion of culture, development of the self, interaction in groups, deviance and social inequality, social institutions and social change. Emphasis on contemporary American society with global perspective. (*UC Transfer Limit: SOC 101 and 101H combined: maximum credit, one course).

**SOC 103 — Marriage, Family and Intimacy**
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture

Investigates the family as a social and cultural institution, including the increasing diversity of contemporary American families. Describes the structures and functions of American families, as well as offering some cross-cultural comparisons. Examines the impact of gender on family roles and intimate relationships. Covers such topics as falling in love, partner selection, marital adjustment, communication and conflict resolution, divorce, domestic violence and parenting.

**SOC 104 — Social Psychology**
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture

Introductory course which examines the relationship between the individual and society, and how each is shaped and influenced by the other from a sociological perspective. Covers theoretical approaches, methodological applications, and empirical studies of human behavior within the social environment.

**SOC 106 — Sociology of Deviance**
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture

Examination of deviance and social control in contemporary society, using the sociological perspective. Focus on the social processes involved in the construction of deviance, and its functions and impacts on individuals and society. Covers interpersonal and family violence; mental disorders; deviant sexuality; drug and alcohol use; and property, white-collar and organized crime.

**SOC 107/ETHS 107 — Racism in America**
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 110 or 110H
Hours: 54 lecture

Examines race and ethnicity and the impacts of racism upon selected racial and ethnic groups in American
society. Covers major theories on the development of racial attitudes and behavior. Attention is also given to the relationship between racism, sexism and class oppression.

**SOC 109 — Social Problems**  
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 110 or 110H*  
*Hours: 54 lecture*

Introductory course which analyzes a variety of contemporary issues from a sociological perspective. Uses social theory and research methods to gain insight into the nature, extent, consequences and possible solutions to social problems in the United States and globally.

**SOC 110/ANTH 110 — Contemporary Social Problems**  
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 110 or 110H*  
*Hours: 54 lecture*

Investigates ideas and themes related to culture, society and media, using episodes and excerpts from The Simpsons and South Park. Sociological and anthropological theories and methodologies discussed, specifically examining elements of culture, the development of the self, and contemporary American society.

**SOC 113 — Sociology of Sex and Gender**  
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 110 or 110H*  
*Hours: 54 lecture*

Introductory course designed to examine the changing roles of women and men in contemporary American society.

**SOC 115 — Introduction to Social Research**  
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 110 or 110H*  
*Hours: 54 lecture*

Introductory course which explores the variety of methods used by sociologists to study the social world and human behavior. Examination of classic and contemporary studies as models of research. Emphasis on doing social research, from designing a project, to collecting and analyzing the data on various topics of interest to students.

**SOC 118 — Media, Culture and Society**  
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 110 or 110H*  
*Hours: 54 lecture*

Critical examination of the mass media from a sociological perspective. Focus on how the media are shaped by and influence society, culture and the individual. Covers a variety of topics, including the role of media in ideology and identity; economics and politics; race, class and gender; and social change and globalization.

**SOC 120 — Introduction to Social Work**  
(3) — CSU  
*Skills Advisories: Eligibility for ENG 110 or 110H*  
*Hours: 54 lecture*

Introduction to field of social work. Covers historical development as a profession. Introduces core knowledge base, including theoretical perspectives on which it is based. Roles, required training, methods and skills, and values and ethics covered. Emphasis on core competencies in 2008 Educational Policy and Accreditation Standards (EPAS), set by the Council on Social Work Education (CSWE).

**SOC 295 — Internship in Sociology**  
(2-4) — CSU  
*Limitation on Enrollment: Completion of two courses in the Sociology Department at SBCC prior to enrolling in an internship course.*  
*Skills Advisories: Eligibility for ENG 110 or 110H*  
*Hours: 108-273 lab*

Structured Internship program in which students gain experience with community organizations related to the discipline.

**SOC 299 — Independent Study in Sociology**  
(1-4) — CSU  
*Limitation on Enrollment: Six units of Sociology courses completed with a 3.0 or higher GPA; minimum of 12 units of course work completed at SBCC with a GPA of at least 2.5.*  
*Skills Advisories: Eligibility for ENG 110 or 110H*  
*Hours: 48-192 lab*

For complete information, see “Independent Study” in the Catalog Index. (*UC transfer limit: SOC 299 computed as Independent Study; see counselor).*
Theatre Arts

Degrees, Certificates and Awards
Associate in Arts Degree, Theatre Arts: General
Associate in Arts Degree, Theatre Arts: Acting/Directing
Associate in Arts Degree, Theatre Arts: Design/Lighting and/or Costuming/Makeup
Associate in Arts Degree (AA-T): Theatre Arts for Transfer
Skills Competency Award, Acting Level One
Skills Competency Award, Acting Level Two
Skills Competency Award, Introductory Costume Crafts and Design
Skills Competency Award, Technical Production
Department Award: Theatre Arts

Program Description
The Theatre Arts Department at Santa Barbara City College offers a variety of programs of study and experience suited to the needs of the serious theatre student, as well as those students who wish to include theatre arts as part of their liberal arts education. With curricula in Acting/Directing, Design/Lighting, Costuming and Technical Production, the program provides an intensive two-year course of study that prepares Theatre Arts majors for transfer to a four-year college or university—ready to do advanced, upper-division work.

Hands-on practical experience is stressed through a wide-ranging production program. Students have the opportunity of working in all phases of production and performance and are encouraged to take on increasing levels of responsibility. By the time they complete their Associate in Arts degrees, many of our students have appeared in roles in student showcases and/or Santa Barbara City College Theatre Group productions, served as crew heads and stage managers on specific productions, and designed or directed showcase performances. These experiences, combined with intensive classes in the various theatre arts disciplines, have contributed greatly to the success of those who have chosen to continue in theatre or related pursuits beyond City College—either through further study or by entering the job market directly.

For the liberal arts student, ample opportunities to participate in productions, either by performing or working behind-the-scenes, combined with the freedom to select courses in areas of interest, provide an exciting and enriching addition to their other studies.

The unique combination of state-of-the-art facilities, professional faculty and staff, and an active, respected production program make theatre studies at Santa Barbara City College worthy of any student’s consideration.

The department offers an AA-T Degree in Theatre Arts for Transfer. This degree provides the foundational knowledge in Theatre Arts to students who want to earn a Baccalaureate Degree in Theatre Arts. This degree is in compliance with the Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code Sections 66746-66749) and guarantees admission to a California State University (CSU) campus for any community college student who completes an "associate degree for transfer," a newly established variation of the associate degrees traditionally offered at a California community college. Upon completion of the transfer associate degree, the student is eligible for transfer with junior standing into the California State University (CSU) system. Students will be given priority consideration when applying to a particular program that is similar to the student’s community college area of emphasis. For more information on transfer degrees, visit www.sb1440.org.

Program Student Learning Outcomes
Theater Arts: General Emphasis
1. Analyze a play text in terms of dramatic structure, production and performance.
2. Knowledgeably critique a theatrical performance in terms of relevant techniques applied and aesthetic choices made.
3. Articulate the evolution of theatre and its various styles and genres and relate them to contemporary issues, values and concerns.

Theatre Arts: Technical Emphasis
1. Analyze a play text in terms of dramatic structure, production and performance.
2. Demonstrate the proper application of theatre crafts’ terminology pertaining to production challenges.
3. Demonstrate proficient use of theatre crafts’ tools and technology in the creation of theatrical productions.
Theatre Arts: Acting and Directing Emphasis
1. Analyze a play text in terms of dramatic structure, production and performance.
2. Effectively use vocabulary, techniques and processes to act in or direct an affective public performance of a play.
3. Effectively use basic technical theatre vocabulary and apply foundational theatre craft skills.

Department Offices
Drama-Music Complex (ext. 2376)
Theatre Box Office, (805) 965-5935
R. Michael Gros, Co-Chair (ext. 4049)
Katie Laris, Co-Chair (ext. 2497)
Pam Lasker, Theatre Manager (ext. 2375)
Alice Perez, Dean (A-118, ext. 2354)

Theatre Arts Scene Studio
Ben Crop, Technical Director (DM-145, ext. 4006)

Theatre Arts Costume Studio
Clarice Hillebrand, Costume Supervisor
(DM-126, ext. 2424)

Faculty and Offices
R. Michael Gros, Co-Chair (DM-123, ext. 4049)
Katie Laris, Co-Chair (DM-122, ext. 2497)
Patricia Frank, Director of Design and Technology
(DM-114A, ext. 2369)
Pamela Shaw, Director of Costume and Make-up
(DM-124, ext. 4036)

College Requirements
For complete information, see “Graduation Requirements” in the Catalog Index.

AA Degree Requirements
The Theatre Arts Department encourages both part-time and full-time students to pursue one of the Associate in Arts degrees that are offered. Both full- and part-time students are strongly urged to consult with department faculty to plan the course sequence for their desired program, as some classes are not offered every semester.

AA Degree, Theatre Arts: General
Departmental Requirements (25-26 units)
TA 106 — Development of Drama: Musical Theatre or........3
TA 107 — Development of Drama: Restoration to Contemporary........................3
TA 108 — Development of Drama: Greek to Renaissance 3
TA 111 — Beginning Acting..............................................................3
TA 112 — Intermediate Acting A....................................................3
TA 120 — Understanding Scenography........................................3
TA 121 — Introduction to Stagecraft or...........................................3
TA 131 — Introduction to Costume Crafts.................................3

Controlled Electives: Select 6 units from the following—not including courses taken to satisfy requirements above:
ENG 242 — Contemporary Dramatic Literature or.........3
ENG 262 — Shakespeare or..........................................................3
TA 106 — Development of Drama: Musical Theatre or...3
TA 108 — Development of Drama Restoration to Contemporary................3
TA 114 — Voice and Diction..........................................................3
TA 116 — Page to Performance: Readers’ Theatre..........3
TA 121 — Introduction to Stagecraft.................................3
TA 123 — Stage Lighting.................................................................3
TA 131 — Introduction to Costume Crafts............................3
TA 136 — Theatrical Make-up Techniques.................................3
TA 160 — Chicano Theatre or.................................................3
CHST 160 — Chicano Theatre.........................................................3
TA 175* — Summer Theatre Workshop .......................1-3
TA 213 — Intermediate Acting B..................................................3
TA 214 — Advanced Acting or......................................................3
TA 215 — Fundamentals of Directing.................................3

Select a minimum of 1 unit from the following:
TA 141-144 — Theatre Workshop.................................0.5-2
TA 145A — Stage Electrician..........................................................0.5
TA 146A — Theatrical Stage Carpentry Deck Crew...............0.5
TA 149A — Production Assistant..................................................0.5
TA 150A — Audio Technician in Production..........................0.5
TA 151-154 — Theatre Production.................................0.5-2
TA 175* — Summer Theatre Workshop .......................1-3
TA 255A-255D — Classical Comedy in Performance .................................................. 0.5-2
TA 256A-256D — Contemporary Comedy in Performance ........................................ 0.5-2

*A maximum of 3 units from TA 175 may be applied toward AA Degree.

AA Degree, Theatre Arts: Acting/Directing

Departmental Requirements (27.5-29 units)

TA 106 — Development of Drama: Musical Theatre or ........................................ 3
TA 108 — Development of Drama: Restoration to Contemporary ........................ 3
TA 107 — Development of Drama: Greek to Renaissance ................................. 3
TA 111 — Beginning Acting ................................................................................. 3
TA 112 — Intermediate Acting A ........................................................................ 3
TA 114 — Voice and Diction .............................................................................. 3
TA 121 — Introduction to Stagecraft ................................................................. 3
TA 123 — Stage Lighting or ............................................................................ 3
TA 131 — Introduction to Costume Crafts ......................................................... 3
TA 134 — Introduction to Costume Design ........................................................ 3
TA 136 — Theatrical Makeup Techniques .......................................................... 3
TA 141 — Theatre Workshop or .................................................................... 0.5
TA 142 — Theatre Workshop .......................................................................... 1
TA 143 — Theatre Workshop or .................................................................... 1.5
TA 144 — Theatre Workshop or .................................................................... 2
TA 151 — Theatre Production or .................................................................... 0.5
TA 152 — Theatre Production or .................................................................... 1
TA 153 — Theatre Production or .................................................................... 1.5
TA 154 — Theatre Production or .................................................................... 2
TA 215 — Fundamentals of Directing .............................................................. 3
TA 218 — Acting for the Camera ..................................................................... 3

Controlled Electives: Select 6 units from the following—not including courses taken to satisfy requirements above:

TA 106 — Development of Drama: Musical Theatre or ........................................ 3
TA 108 — Development of Drama: Restoration to Contemporary ...................... 3
TA 116 — Page to Performance: Readers’ Theater ........................................... 3
TA 120 — Understanding Scenography ............................................................ 3
TA 121 — Introduction to Stagecraft ................................................................. 3
TA 123 — Stage Lighting or ............................................................................ 3
TA 134 — Introduction to Costume Design ........................................................ 3
TA 175* — Summer Theatre Workshop .......................................................... 1-3
TA 213 — Intermediate Acting B .................................................................... 3
TA 214 — Advanced Acting ............................................................................. 3
TA 267A — Acting Styles: Shakespeare ............................................................. 3

*A maximum of 3 units from TA 175 may be applied toward AA Degree.

AA Degree, Theatre Arts: Design/Lighting and/or Costuming/Makeup

Departmental Requirements (25.5-29)

TA 103 — Theatre Appreciation or ................................................................. 3
TA 106 — Development of Drama: Musical Theatre or ........................................ 3
TA 107 — Development of Drama: Greek to Renaissance or ............................. 3
TA 108 — Development of Drama: Restoration to Contemporary ...................... 3
TA 111 — Beginning Acting ........................................................................... 3
TA 120 — Understanding Scenography ............................................................ 3
TA 121 — Introduction to Stagecraft ................................................................. 3
TA 131 — Introduction to Costume Crafts ........................................................ 3
TA 136 — Theatrical Makeup Techniques .......................................................... 3
TA 151-154 — Theatre Production ................................................................. 0.5-2
**Area A: Select a minimum of 1 unit from the following:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>TA 145A</td>
<td>Stage Electrician</td>
<td>0.5</td>
</tr>
<tr>
<td>TA 146A</td>
<td>Theatrical Stage Carpentry Deck Crew</td>
<td>0.5</td>
</tr>
<tr>
<td>TA 149A</td>
<td>Production Assistant</td>
<td>0.5</td>
</tr>
<tr>
<td>TA 150A</td>
<td>Audio Technician in Production</td>
<td>0.5</td>
</tr>
<tr>
<td>TA 151-154</td>
<td>Theatre Production</td>
<td>0.5-2</td>
</tr>
<tr>
<td>TA 155A</td>
<td>Costume Dresser in Production</td>
<td>0.5</td>
</tr>
<tr>
<td>TA 156A</td>
<td>Production Make-up Assistant</td>
<td>0.5</td>
</tr>
</tbody>
</table>

**Area B: Select 6 units from the following - not including courses taken to satisfy requirements above.**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 120</td>
<td>Fundamentals of Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART 122</td>
<td>Advanced Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ENG 242</td>
<td>Contemporary Dramatic Literature</td>
<td>3</td>
</tr>
<tr>
<td>TA 103</td>
<td>Theatre Appreciation</td>
<td>3</td>
</tr>
<tr>
<td>TA 106</td>
<td>Development of Drama: Musical Theatre</td>
<td>3</td>
</tr>
<tr>
<td>TA 107</td>
<td>Development of Drama: Greek to Renaissance</td>
<td>3</td>
</tr>
<tr>
<td>TA 108</td>
<td>Development of Drama: Restoration to Contemporary</td>
<td>3</td>
</tr>
<tr>
<td>TA 112</td>
<td>Intermediate Acting A</td>
<td>3</td>
</tr>
<tr>
<td>TA 122</td>
<td>Theatre Graphics</td>
<td>4</td>
</tr>
<tr>
<td>TA 123</td>
<td>Stage Lighting</td>
<td>3</td>
</tr>
<tr>
<td>TA 134</td>
<td>Introduction to Costume Design</td>
<td>3</td>
</tr>
<tr>
<td>TA 160</td>
<td>Chicano Theatre or CHST 160 — Chicano Theatre</td>
<td>3</td>
</tr>
<tr>
<td>TA 175*</td>
<td>Summer Theatre Workshop</td>
<td>1-3</td>
</tr>
<tr>
<td>TA 213</td>
<td>Intermediate Acting B</td>
<td>3</td>
</tr>
<tr>
<td>TA 214</td>
<td>Advanced Acting</td>
<td>3</td>
</tr>
<tr>
<td>TA 215</td>
<td>Fundamentals of Directing</td>
<td>3</td>
</tr>
<tr>
<td>TA 227</td>
<td>Scenic Design</td>
<td>3</td>
</tr>
</tbody>
</table>

*A maximum of 3 units from TA 175 may be applied toward AA Degree.

**Preparation for Transfer**

Course requirements for transfer vary depending upon the college or university a student wishes to attend. Therefore, it is *most important* for a student to consult with his/her counselor, departmental adviser, and/or Theatre Arts faculty member before planning an academic program for transfer. Information sheets for majors, outlining transfer requirements, are available in the Counseling Center.

**Requirements for AA-T Degree—Theatre Arts for Transfer**

Theatre Arts covers a wide range of topics. The major is designed to give students exposure to basic information in the discipline and provide the opportunity to focus on the areas that best suit their individual needs. Students should consult with a departmental adviser and/or counselor when choosing both controlled and general electives in order to develop a program of study that is best suited to their specific needs. For example, requirements for the Baccalaureate Degree in Theatre Arts vary from one institution to another. It is, therefore, essential to become familiar with the requirements of the institution a student plans to attend.

The Associate in Arts Degree in Theatre Arts for Transfer will provide the foundational knowledge to students who want to earn a Baccalaureate Degree in Theatre Arts at any of the CSU campuses.

**Degree Requirements**

Complete 60 CSU-transferable units including General Education, major requirements and CSU-transferable electives as follows:

**I. General Education**

*Complete one of the following patterns:*

- Intersegmental General Education Transfer Curriculum “IGETC” for CSU (38 semester units)
- California State University General Education Breadth pattern (40 semester units)

**II. Major**

Complete 18 units as outlined below with a “C” or better in each course. Pass/No Pass grading is not permitted in a course within a student’s major area of study. The courses completed for the major may also be used to fulfill General Education areas on the IGETC or the CSU GE Breadth.

**Required Core (9 units)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>TA 103*</td>
<td>Theatre Appreciation or</td>
<td>3</td>
</tr>
<tr>
<td>TA 107*</td>
<td>Dev. Drama: Greek to Renaissance</td>
<td>3</td>
</tr>
<tr>
<td>TA 111*</td>
<td>Beginning Acting</td>
<td>3</td>
</tr>
</tbody>
</table>
Plus 3 units selected from the following Rehearsal and Performance Production or Technical Theatre in Production courses:

- TA 141 — Theatre Workshop ..................................................0.5
- TA 142 — Theatre Workshop ..................................................1
- TA 143 — Theatre Workshop ..................................................1.5
- TA 144 — Theatre Workshop ..................................................2
- TA 145A — Stage Electrician ..................................................0.5
- TA 146A — Theatrical Stage Carpentry Deck Crew .................0.5
- TA 149A — Production Assistant ..........................................0.5
- TA 150A — Audio Technician in Production ..........................0.5
- TA 151 — Theatre Production ..................................................0.5
- TA 152 — Theatre Production ..................................................1
- TA 153 — Theatre Production ..................................................1.5
- TA 154 — Theatre Production ..................................................2
- TA 155A — Costume Dresser in Production ...........................0.5
- TA 156A — Production Make-up Assistant ..............................0.5
- TA 256A — Contemporary Comedy in Performance ...............0.5
- TA 256B — Contemporary Comedy in Performance ...............1
- TA 256C — Contemporary Comedy in Performance ...............1.5
- TA 256D — Contemporary Comedy in Performance ...............2
- TA 262A — Modern American Drama in Performance .............0.5
- TA 262B — Modern American Drama in Performance .............1
- TA 262C — Modern American Drama in Performance .............1.5
- TA 262D — Modern American Drama in Performance .............2

List A: Select 9 units from List A or 6 units from List A and an additional 3 units from the courses listed above under Rehearsal and Performance Production or Technical Theatre in Production that are not being used to satisfy the Required Core.

- TA 112 — Intermediate Acting A ..........................................3
- TA 120* — Understanding Scenography ................................3
- TA 121* — Introduction to Stagecraft .....................................3
- TA 123 — Stage Lighting .......................................................3
- TA 134* — Introduction to Costume Design ............................3
- TA 136* — Theatrical Make-up Techniques .............................3

* All of these courses fulfill an IGETC and/or a CSU GE Breadth pattern requirement. Visit www.assist.org

or http://articulation.sbcc.edu for IGETC and CSU GE Breadth requirements.

III. CSU-Transferable Electives

Complete as many units as needed to reach a total of 60 CSU-transferable units (for a list of SBCC-transferable courses to CSU, visit www.assist.org).

Additional Graduation Requirements for AA-T in Theatre Arts:

- Maintain a cumulative CSU-transferable GPA of 2.0.
- Residency Requirements: Candidates for an Associate Degree are expected to complete 15 semester units in residence at SBCC. Candidates for an Associate Degree are also expected to complete at least 20% of the department major requirements in residence at SBCC.

Department Award: Theatre Arts

Departmental Requirements (24-27 units)

- TA 106 — Development of Drama: Musical Theatre or .........3
- TA 108 — Development of Drama: Restoration to Contemporary ...........................................3
- TA 107 — Development of Drama: Greek to Renaissance ..3
- TA 111 — Beginning Acting ...................................................3
- TA 112 — Intermediate Acting A ..........................................3
- TA 114 — Voice and Diction ..................................................3
- TA 120 — Understanding Scenography ................................3
- TA 121 — Introduction to Stagecraft or .........................3
- TA 131 — Introduction to Costume Crafts .......................3

Select a minimum of 3 units from the following:

- TA 122 — Theatre Graphics ..................................................4
- TA 123 — Stage Lighting .......................................................3
- TA 134 — Introduction to Costume Design ..........................3
- TA 136 — Theatrical Make-up Techniques .............................3
- TA 141-144 — Theatre Workshop .................................0.5-2
- TA 145A — Stage Electrician ...............................................0.5
- TA 146A — Theatrical Stage Carpentry Deck Crew .........0.5
- TA 149A — Production Assistant .........................................0.5
- TA 150A — Audio Technician in Production ....................0.5
- TA 151-154 — Theatre Production .................................0.5-2
TA 155A — Costume Dresser In Production ......................0.5
TA 156A — Production Make-up Assistant........................0.5
TA 175 — Summer Theatre Workshop.............................. 1-6

Students must complete all department requirements for the award with a grade of “C” or better in each course.

Note: TA 107 is offered in Fall Semester only; TA 106 and 108 are offered in alternating Spring Semesters only; TA 120 is offered in Fall Semester only; TA 123 is offered usually in Spring Semester, alternate years; TA 214 and 215 are only offered in Spring Semester.

Skills Competency Award: Acting Level I
Departmental Requirements (10 units)
TA 111 — Beginning Acting...........................................3
TA 112 — Intermediate Acting A.................................3
TA 136 — Theatrical Make-up Techniques........................3

Plus complete a minimum of one unit from the following:
TA 141-144 — Theatre Workshop ..................................0.5-2
TA 256A-256D — Contemporary Comedy in Performance.........................................................0.5-2
TA 262A-262D — Modern American Drama in Performance.................................................0.5-2

Students must complete above courses with a grade of “C” or higher or pass in all courses. Candidates for a Skills Competency Award are required to complete at least 20% of the department requirements through SBCC.

Skills Competency Award: Acting Level II
Departmental Requirements (10 units)
TA 106 — Development of Drama: Musical Theatre or ........................3
   TA 107 — Development of Drama: Greek to Renaissance or ..................3
   TA 108 — Development of Drama: Restoration to Contemporary .................3
TA 114 — Voice and Diction ...........................................3
TA 213 — Intermediate Acting B.........................................3

Plus complete a minimum of one unit from the following:
TA 141-144 — Theatre Workshop ..................................0.5-2
TA 256A-256D — Contemporary Comedy in Performance.........................................................0.5-2

TA 262A-262D — Modern American Drama in Performance.................................................0.5-2
TA 299 — Independent Study in Theatre Arts .........................1-6

Students must complete above courses with a grade of “C” or higher or pass in all courses. Candidates for a Skills Competency Award are required to complete at least 20% of the department requirements through SBCC.

Skills Competency Award: Introductory Costume Crafts and Design
Departmental Requirements (13-14 units)
TA 120 — Understanding Scenography ................................3
TA 131 — Introduction to Costume Crafts........................3
TA 134 — Introduction to Costume Design........................3
TA 136 — Theatrical Make-up Techniques........................3

Plus complete a minimum of one unit from the following:
TA 151-154 — Theatre Production ..................................0.5-2
TA 155A — Costume Dresser in Production......................0.5
TA 156A — Production Make-up Assistant.........................0.5

Students must complete above courses with a grade of “C” or higher or pass in all courses. Candidates for a Skills Competency Award are required to complete at least 20% of the department requirements through SBCC.

Skills Competency Award: Technical Production
Departmental Requirements (13 units)
TA 120 — Understanding Scenography ................................3
TA 121 — Introduction to Stagecraft.................................3
TA 131 — Introduction to Costumecrafts..........................3

Plus complete a minimum of one unit from the following:
TA 151-154 — Theatre Production ..................................0.5-2
TA 145A — Stage Electrician ...........................................0.5
TA 146A — Theatrical Stage Carpentry Deck Crew ...............0.5
TA 149A — Production Assistant .......................................0.5
TA 150A — Audio Technician in Production..........................0.5

Students must complete above courses with a grade of “C” or higher or pass in all courses. Candidates for a Skills Competency Award are required to complete at least 20% of the department requirements through SBCC.
Facilities and Staff
Santa Barbara City College’s programs are produced in the state-of-the-art Garvin Theatre and Jurkowitz Theatre, located on SBCC’s West Campus. Productions are constructed in well-equipped scene and costume studios located adjacent to the theatres. All production work is performed by students under the guidance of professional staff. Students are offered a variety of opportunities and practical experiences in all areas of theatre production.

Special Offerings
*The Theatre Group at SBCC*
The Theatre Group at SBCC is the production arm of the SBCC Theatre Arts Department. It seeks to further student education by providing a practical performance experience and by integrating full-time students, community talent and professional guest artist teachers into a productive family for mutual growth and professional and educational enrichment.

Contact the department faculty directly for information on upcoming events and/or contact the Theatre Department production office, (805) 965-0581, ext. 2376, to be added to our mailing list for upcoming performance opportunities.

Students involved in productions are required to commit themselves to a four- to six-week rehearsal and performance period.

Student actors/actresses enroll in the Santa Barbara City College Theatre Group production program, TA Workshop 141-144, by auditions for the individual performance/workshop activities. (Contact R. Michael Gros and/or Katie Laris.)

Technical Theatre students enroll by interview in TA 151-154, Theatre Production. (Contact Ben Crop for the Scenic/Lighting Studio, and/or Clarice Hillebrand for the Costume/Make-up Studio.) Upon acceptance, students may enroll in from 0.5 to 2.0 units for each production assignment. No prior experience is required.

**Student Production Program**
All department production and performance activities are designed for student participation as actors, crew members, stage managers, assistant directors, etc.

Each Spring Semester, students in TA 215 - Directing stage the Festival of One-Act Plays: six nights of student-directed, student-acted works.

Theatre students who have completed the bulk of their theatre studies at Santa Barbara City College and who have demonstrated superior commitment

and accomplishment in their work are encouraged to propose independent production projects for departmental support. Upon approval by the departmental faculty and staff, such students may be given the opportunity to assume principal responsibility for the production and direction of a showcase production in the Jurkowitz Theatre and/or principal design responsibility for a Theatre Group production, showcase, or dance production. For more information, contact the Department Production Chair.

**Honors and Awards**
Each year, one student who has excelled both in academics and in his/her participation in the theatre production program, is selected by the theatre faculty and staff as the department’s “Outstanding Student of the Year” and is honored at a campus-wide event. Additional students are selected for honors in acting, theatre production, scenic production and costume. The names of all students so honored are permanently displayed in the Garvin Theatre lobby.

**Scholarships**
Numerous scholarships are available for new, continuing and completing theatre students. For specific information and application forms, contact the Financial Aid Office (SS-210).

**Theatre Arts Courses**

**Introductory/Intermediate-Level Classes**
*(Suggested for first-year students)*

**TA 103 — Theatre Appreciation**
3 — CSU, UC
*Skills Advisories: Eligibility for ENG 98 and 103*
*Hours: 54 lecture*

Survey of play production and dramatic literature in the context of dramatic style, structure and historical perspective, including an exploration of various methods and conventions of theatrical realization through acting, directing, design and production. Provides a greater understanding and appreciation of theatre as a living art.

**TA 104 — Script Analysis**
3 — CSU
*Skills Advisories: Eligibility for ENG 110 or 110H*
*Hours: 54 lecture*
Study of play texts, from page to stage, with emphasis on analysis of story structure, character, language, cultural context and style.

**TA 106 — Development of Drama: Musical Theatre**  
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 54 lecture*  
Survey of the dramatic literature of musical theatre from operetta to contemporary musical theatre. Through reading, listening, viewing and analysis of representative musicals, consideration of musical theatre conventions and aesthetic influences, the evolution of the musical as a cultural expression and social force is examined in reference to its historical context and contemporary effect.

**TA 107 — Development of Drama: Greek to Renaissance**  
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 54 lecture*  
Survey of dramatic literature from ancient Greece, Rome and Asia through the 17th century. Through reading and analysis of representative plays, consideration of theatrical conventions and review of aesthetic influences, the evolution of theatre as a cultural expression and social force is examined in reference to its historical context and contemporary effect.

**TA 108 — Development of Drama: Restoration to Contemporary**  
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 54 lecture*  
Survey of dramatic literature from the 17th century to modern times. Through reading and analysis of representative plays selected from each of the major dramatic periods within this frame and through consideration of theatrical conventions and aesthetic influences, the evolution of theatre is examined in its historical context and for contemporary effect.  
*Note: Students may enroll in TA 108 prior to and/or without having enrolled in TA 107.*

**TA 110 — Improvisation**  
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 98  
Hours: 54 lecture*  
Student will create and perform dynamic individual and group improvisational exercises and scenes. Explores essential techniques of physical and verbal spontaneous performance.

**TA 111 — Beginning Acting**  
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 48 lecture*  
Introduction to the art of acting, which entails the effective communication of the ideas and emotions of a dramatic character to an audience. The ultimate goal is to develop a firm foundation in basic acting techniques.

**TA 112 — Intermediate Acting A**  
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 98 and 103  
Course Advisories: TA 111  
Hours: 90 (36 lecture, 54 lab)*  
Emphasizes “work on oneself,” which includes learning to listen; developing sensory awareness; enhancing concentration and observation; performing meaningful activities; exploring emotional preparation techniques; and defining relationships. By engaging in scene work, students develop fundamental performance skills.

**TA 114 — Voice and Diction**  
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 90 (36 lecture, 54 lab)*  
Introduction to the mechanics of voice production and the various elements of speech: quality, strength, duration and pitch. The student is also introduced to the International Phonetic Alphabet, American standard pronunciation, and stage dialects.

**TA 116 — Page to Performance: Readers’ Theatre**  
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 54 lecture*  
Introduction to the skills of analysis and performance techniques necessary to explore, understand and orally present diverse literary works that include traditional, modern and original student works.

**TA 120 — Understanding Scenography**  
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 98 and 103  
Hours: 54 lecture*
Examination of the practice and implications of visual and aural design in the theatre, including a study of the origins and development of theatrical scenery, costume and lighting projection, and sound design. A survey of current scenographic practices and their relationship to theatrical performance.

**TA 121 — Introduction to Stagecraft**  
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 98 and 103; proficiency in MATH 107 or 111*  
*Hours: 54 lecture*

Survey of organization, practices, conventions and crafts associated with execution of scenic, lighting and sound designs for the stage. Includes study of and laboratory experience in scenic construction, painting, rigging, placement and manipulation of scenery, lighting and sound equipment, and properties.

**TA 122 — Theatre Graphics**  
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 98 and 103; proficiency in MATH 107 or 111*  
*Hours: 90 (54 lecture, 36 lab)*

Exploration of graphic techniques used to develop and communicate scenic and lighting designs for execution on stage. Includes freehand sketching, mechanical drawing, perspective and color rendering, computer-aided drafting and model-building techniques.

**TA 123 — Stage Lighting**  
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 98 and 103; MATH 107 or 111*  
*Hours: 90 (36 lecture, 54 lab)*

Introduction to stage lighting techniques, principles and equipment, including a basic study of optics, color, electricity, instrumentation, control systems and design theory.

**TA 131 — Introduction to Costume Crafts**  
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 98 and 103*  
*Hours: 90 (36 lecture, 54 lab)*

Introduction to the techniques and methodology of costume and accessory construction. Practical experience in sewing, pattern development, fabrics and their modification. Examination of costume production procedures in regard to time, budgets and labor. Investigation of craft techniques and materials required for accessories: millinery, footwear, mask, armor, jewelry and others.

**TA 134 — Introduction to Costume Design**  
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 98 and 103; proficiency in MATH 1*  
*Hours: 90 (54 lecture, 36 lab)*

Study of the interpretation of scripts through costume design. Includes a brief survey of costume history, discussions of costume and production organization and personnel, discussion and sample construction for design and practice of drawing and rendering techniques. Study takes form of design projects done for theoretical productions.

**TA 136 — Theatrical Make-up Techniques**  
(3) — CSU, UC  
*Skills Advisories: Eligibility for ENG 98 and 103*  
*Hours: 90 (36 lecture, 54 lab)*

Investigation of the use of make-up in contributing to the effectiveness character presentation on stage, television, video, film and photography projects. Emphasis on design and techniques of make-up to aid the student in the development and projection of character. Required course for theatre majors.

**TA 141-142-143-144 — Theatre Workshop**  
(0.5-1.0-1.5-2.0) — CSU, UC  
*Skills Advisories: Eligibility for ENG 98 and 103*  
*Limitation on Enrollment: By audition and/or assignment by instructor.*  
*Hours: 27-270 lab*

141 — (0.5) — 27 lab hours  
142 — (1.0) — 54 lab hours  
143 — (1.5) — 81 lab hours  
144 — (2.0) — 108 lab hours

Provides study and laboratory exploration of all aspects of play production involving the actor in order to develop his acting capabilities, skills and discipline. The audition, preparation and presentational phases of the acting process explored under the supervision and guidance of a faculty director. Productions presented for public performance. Enrollment is for the duration of the audition, preparation and presentation phases of production.
Note: Registration follows audition and/or interview, after semester begins.

**TA 145A — Stage Electrician**  
(0.5) — CSU, UC  
*Skills Advisories: Eligibility for ENG 98 and 103*  
*Limitation on Enrollment: Auditions for Public Performance*  
*Hours: 27 lab*

Provides study and laboratory exploration for the beginning technician in the operation of basic theatrical lighting instruments utilized in the realization of a production. Enrollment by Instructor assignment.

**TA 145B — Light Board Operator**  
(1) — CSU, UC  
*Limitation on Enrollment: Auditions for Public Performance*  
*Hours: 54 lab*

Provides study and laboratory exploration for the technician in the operation of theatrical lighting instruments and control boards utilized in the realization of a production.

**TA 145C — Master Electrician**  
(1.5) — CSU, UC  
*Skills Advisories: Eligibility for ENG 98*  
*Limitation on Enrollment: Auditions for Public Performance*  
*Hours: 81 lab*

Provides study and laboratory experience for the technician in the implementation of the light plot, maintenance of lighting instruments, power distribution and circuitry utilized in the realization of a production.

**TA 145D — Assistant to the Lighting Designer**  
(2) — CSU, UC  
*Skills Advisories: Eligibility for ENG 98*  
*Limitation on Enrollment: Auditions for Public Performance*  
*Hours: 108 lab*

Provides study and laboratory experience for the student in visual research for lighting design, the implementation of the light plot, generating appropriate light schedules for hang and hook-up, and color cut list to be utilized in the realization of a lighting design.

**TA 146A — Theatrical Stage Carpentry Deck Crew**  
(0.5) — CSU, UC  
*Skills Advisories: Eligibility for ENG 98*  
*Limitation on Enrollment: Auditions for Public Performance*  
*Hours: 27 lab*

Provides study and laboratory exploration for the beginning theatrical technician in the responsibilities and skills necessary to function as a stage carpenter on the deck crew of a realized production.

**TA 146B — Fly and Scenery Systems Operator**  
(1) — CSU, UC  
*Skills Advisories: Eligibility for ENG 98*  
*Limitation on Enrollment: Auditions for Public Performance*  
*Hours: 54 lab*

Provides study and laboratory exploration for the beginning theatrical technician in the responsibilities and skills necessary to function as a fly systems operator of a realized production.

**TA 146C — Deck Crew Co-Chief**  
(1.5) — CSU, UC  
*Skills Advisories: Eligibility for ENG 98*  
*Limitation on Enrollment: Auditions for Public Performance*  
*Hours: 81 lab*

Provides study and laboratory exploration for the intermediate theatrical technician in the responsibilities and skills necessary to function as a deck crew co-chief on the deck crew of a realized production.

**TA 146D — Deck Crew Head**  
(2) — CSU, UC  
*Skills Advisories: Eligibility for ENG 98*  
*Limitation on Enrollment: Auditions for Public Performance*  
*Hours: 108 lab*

Provides study and laboratory exploration for the advanced theatrical technician to serve as a deck crew head on a realized production. Enrollment by instructor assignment.
TA 149A — Production Assistant
(0.5) — CSU, UC
Skills Advisories: Eligibility for ENG 98 and 103
Limitation on Enrollment: Auditions for Public Performance
Hours: 27 lab
Provides study and laboratory exploration for the beginning theatre student in the skills required to be part of a theatrical stage management team. Enrollment by instructor assignment.

TA 149B — Assistant Stage Manager
(1) — CSU, UC
Skills Advisories: Eligibility for ENG 98
Limitation on Enrollment: Auditions for Public Performance
Hours: 54 lab
Provides study and laboratory application for the intermediate theatre student in the skills required to be part of a theatrical stage management team. Enrollment by instructor assignment.

TA 149C — Stage Manager
(1.5) — CSU, UC
Skills Advisories: Eligibility for ENG 98
Limitation on Enrollment: Auditions for Public Performance
Hours: 81 lab
Provides study and laboratory exploration for the advanced theatre student in the skills required to lead a theatrical stage management team. Enrollment by instructor assignment.

TA 149D — Production Stage Manager
(2) — CSU, UC
Skills Advisories: Eligibility for ENG 98
Limitation on Enrollment: Auditions for Public Performance
Hours: 108 lab
Provides study and laboratory application for the advanced theatre student in the skills required to lead a theatrical stage management team. Enrollment by instructor assignment.

TA 150A — Audio Technician in Production
(0.5) — CSU, UC
Skills Advisories: Eligibility for ENG 98 and 103
Limitation on Enrollment: Auditions for Public Performance
Hours: 27 lab
Provides study and laboratory exploration for the beginning technician in the operation of basic theatrical audio equipment utilized in the realization of a production. Enrollment by instructor assignment.

TA 150B — Audio Mixing Board Operator in Production
(1) — CSU, UC
Skills Advisories: Eligibility for ENG 98
Limitation on Enrollment: Auditions for Public Performance
Hours: 54 lab
Provides study and laboratory exploration for the intermediate technician in the operation of basic theatrical audio equipment utilized in the realization of a production. Enrollment by instructor assignment.

TA 150C — Audio Systems Programmer
(1.5) — CSU, UC
Skills Advisories: Eligibility for ENG 98
Limitation on Enrollment: Auditions for Public Performance
Hours: 81 lab
Provides study and laboratory exploration for the intermediate technician in the programming of digital audio playback programs utilized in the realization of a production. Enrollment by instructor assignment.

TA 150D — Chief Audio Technician
(2) — CSU, UC
Skills Advisories: Eligibility for ENG 98
Limitation on Enrollment: Auditions for Public Performance
Hours: 108 lab
Provides study and laboratory exploration for the advanced technician in the programming of digital audio playback programs utilized in the realization of a production. Enrollment by instructor assignment.
151-152-153-154 — Theatre Production

(0.5-1.0-1.5-2.0) — CSU, UC

Skills Advisories: Eligibility for ENG 98

Hours: 50-200 lab

151 — (0.5) — 24-27 lab hours
152 — (1.0) — 48-54 lab hours
153 — (1.5) — 72-81 lab hours
154 — (2.0) — 96-108 lab hours

Technical theatre practicum in stage management, scenic construction, scenic painting, costume, make-up, lighting, sound, and properties. Students perform as crew members and/or crew heads for productions.

Note: Students first arrange production assignment with appropriate production supervisor before registering. Registration open throughout semester. Contact department office for details.

TA 155A — Costume Dresser in Production

(0.5) — CSU, UC

Skills Advisories: Eligibility for ENG 98 and 103

Hours: 27 lab

Provides study and laboratory exploration for the beginning technician in the responsibilities and skills necessary to successfully serve as a costume dresser in the realization of a production. Enrollment by instructor assignment.

TA 155B — Specialty Costume Dresser in Production

(1) — CSU, UC

Skills Advisories: Eligibility for ENG 98

Limitation on Enrollment: Auditions for Public Performance

Hours: 54 lab

Provides study and laboratory exploration for the costume technician in the responsibilities and skills necessary to serve as a specialty costume dresser in the realization of a production. Enrollment by instructor assignment.

TA 155C — Costume Crew Technician in Production

(1.5) — CSU, UC

Skills Advisories: Eligibility for ENG 98

Limitation on Enrollment: Auditions for Public Performance

Hours: 81 lab

Provides study and laboratory exploration for the costumer in the responsibilities and skills necessary to successfully serve as a costume crew technician in the realization of a production. Enrollment by instructor assignment.

TA 155D — Costume Crew Head in Production

(2) — CSU, UC

Skills Advisories: Eligibility for ENG 98

Limitation on Enrollment: Auditions for Public Performance

Hours: 108 lab

Provides study and laboratory exploration for the costume technician in the responsibilities and skills necessary to serve as a costume crew head in the realization of a production. Enrollment by instructor assignment.

TA 156A — Production Make-up Assistant

(0.5) — CSU, UC

Skills Advisories: Eligibility for ENG 98 and 103

Hours: 27 lab

Provides study and laboratory exploration for the beginning theatrical make-up artist in the realization of a production. Enrollment by instructor assignment.

TA 156B — Make-up and Hair Assistant in Production

(1) — CSU, UC

Skills Advisories: Eligibility for ENG 98

Limitation on Enrollment: Auditions for Public Performance

Hours: 54 lab

Provides study and laboratory exploration for the theatrical make-up and hair assistant in the realization of a production. Enrollment by instructor assignment.

TA 156C — Theatrical Make-up, Hair and Wig Technician in Production

(1.5) — CSU, UC

Skills Advisories: Eligibility for ENG 98

Limitation on Enrollment: Auditions for Public Performance

Hours: 81 lab

Provides study and laboratory exploration for the theatrical make-up, hair and wig technician to utilize make-up and hair techniques to create a character face map in support of an actor in fully realized production. Enrollment by instructor assignment.
TA 157A — Intermediate Theatrical Make-up Techniques
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 98 and ENG 103; proficiency in MATH 1
Hours: 54 lecture
Investigation and practicum of face and head casting, prosthetics, masks, alternate materials, special effects and hairpieces as part of the character for theatre and camera. Emphasis on design and execution of mask and hairpiece as projection of character.

TA 158A — Scenic Studio Carpenter/Painter
(0.5) — CSU, UC
Skills Advisories: Eligibility for ENG 98
Limitation on Enrollment: Auditions for Public Performance
Hours: 27 lab
Provides study and laboratory exploration for the beginning technician by constructing and painting scenery in the scenic studio. Enrollment by instructor assignment.

TA 158B — Scenic Studio Construction Carpenter/Painter
(1) — CSU, UC
Skills Advisories: Eligibility for ENG 98
Limitation on Enrollment: Auditions for Public Performance
Hours: 54 lab
Provides study and laboratory assignments by constructing and painting scenery in the scenic studio. Enrollment by instructor assignment.

TA 158C — Scenic Studio Project Carpenter/Painter
(1.5) — CSU, UC
Skills Advisories: Eligibility for ENG 98
Limitation on Enrollment: Auditions for Public Performance
Hours: 81 lab
Provides study and laboratory exploration for the advanced technician constructing and painting scenery in the scenic studio. Enrollment by instructor assignment.

TA 160/CHST 160 — Chicano Theatre
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 54 lecture
Survey of Chicano and Latino theatre, its historical roots, techniques, styles and literature. Students explore and analyze the origins and development of various related forms in the context of the Chicano culture of the American Southwest and Mexico.

TA 175 — Summer Theatre Workshop
(1-6) — CSU, UC
Skills Advisories: Eligibility for ENG 98
Limitation on Enrollment: Auditions for Public Performance
Hours: 40-240 lab
(1.0) — 40 lab
(2.0) — 80 lab
(3.0) — 120 lab
(4.0) — 160 lab
(5.0) — 200 lab
(6.0) — 240 lab
Participation in rehearsal/ performance, stage management, scenic construction/painting, costume, makeup, lighting, sound, properties and special workshops in areas allied to summer production. Students perform as crew members/actors for production.
Note: Students must audition and/or arrange placement interview with director or production supervisor prior to enrollment. Contact department office for details.

Intermediate/Advanced-Level Classes
(Suggested for second-year students)

TA 213 — Intermediate Acting B
(3) — CSU, UC
Corequisites: TA 112
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 90 (36 lecture, 54 lab)
Scenes from play texts and one-act plays are studied and presented with concentration on in-depth analysis of subject material, intensity of action, freedom of emotional release and clarity of expression.

214 — Advanced Acting
(3) — CSU, UC
Prerequisites: TA 213
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 90 (36 lecture, 54 lab)
Focuses on “technique” that produces well-rounded performances. Accentuates practical application
through scene work, and the production of one-act plays. Students also prepare for professional or university auditions and examine the business side of the entertainment industry.

**TA 215 — Fundamentals of Directing**
(3) — CSU, UC
Prerequisites: TA 213
Skills Advisories: Eligibility for ENG 98 and 103
Course Advisories: TA 121, 123, 131
Limitation on Enrollment: Interview with instructor
Hours: 90 (36 lecture, 54 lab)

Designed to introduce the student to the background, functions and techniques of the stage director. Investigation of the principles involved in script selection and interpretation, the fundamentals of casting, rehearsal techniques and scheduling, the preparation of a director’s prompt script and performance.

**TA 217A — Movement for the Actor**
(3)
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 90 (36 lecture, 54 lab)

This course will focus on training actors to understand their own physical habits through the study of techniques and methodology of spatial awareness exercises such as Laban, and Alexander technique. Movement skills and balance are critical elements for this course.

**TA 218 — Acting for the Camera**
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 98 and 103
Course Advisories: TA 111 and 112 and 213 and FS 101 or 101H
Hours: 90 (36 lecture, 54 lab)

Introduction to the fundamental skills of acting in front of the camera, including understanding frame sizes, shot definitions, marks, physical continuity, emotional continuity, eye-lines, screen direction, acting for the edit, and the actor’s relationship with the director and the film crew. Students shoot in single- and multiple-camera setups, both in studio and on location.

**TA 227 — Scenic Design**
(3) — CSU, UC
Skills Advisories: Eligibility for ENG 98 and 103 and MATH 104 or 107 or 111
Hours: 90 (36 lecture, 54 lab)

Study of the interpretation of plays through visual and spatial elements, with emphasis on the design process, the understanding of form, composition and style, and the dramatic use of space.

**TA 250 — Advanced Theatre Performance**
(2) — CSU, UC
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 108 lab

Advanced study, analysis and practical application of various interpretive, planning and production techniques and crafts toward creating a public performance of a contemporary, modern and/or historically significant play.

**TA 255A — Classical Comedy in Performance**
(0.5) — CSU, UC
Skills Advisories: Eligibility for ENG 98 and 103
Limitation on Enrollment: Auditions for Public Performance
Hours: 27 lab

Provides study and laboratory exploration for the novice actor in the performance of an ensemble role in a classical comedy under the direction of a faculty or guest director. By audition and/or assignment by instructor.

**TA 255B — Classical Comedy in Performance**
(1) — CSU, UC
Skills Advisories: Eligibility for ENG 98 and 103
Limitation on Enrollment: Auditions for Public Performance
Hours: 54 lab

Study and laboratory exploration for the beginning actor in the performance of a cameo role in a classical comedy under the direction of a faculty or guest director. By audition and/or assignment by instructor.

**TA 255C — Classical Comedy in Performance**
(1.5) — CSU, UC
Skills Advisories: Eligibility for ENG 98 and 103
Limitation on Enrollment: Auditions for Public Performance
Hours: 81 lab

Provides study and laboratory exploration for the advanced-intermediate actor in the performance of a supporting role in a classical comedy under the direction of a faculty director. By audition and/or assignment by instructor.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Transferability</th>
<th>Skills Advisories</th>
<th>Limitation on Enrollment</th>
<th>Hours</th>
<th>Description</th>
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<tr>
<td>TA 255D</td>
<td>Classical Comedy in Performance</td>
<td>(2)</td>
<td>CSU, UC</td>
<td>Eligibility for ENG 98 and 103</td>
<td>Auditions for Public Performance</td>
<td>108 lab</td>
<td>Provides study and laboratory exploration for the advanced actor in the performance of a leading role in a classical comedy, under the direction of a faculty director. By audition or assignment by instructor.</td>
</tr>
<tr>
<td>TA 256A</td>
<td>Contemporary Comedy in Performance</td>
<td>(.5)</td>
<td>CSU, UC</td>
<td>Eligibility for ENG 98 and 103</td>
<td>By audition only.</td>
<td>27 lab</td>
<td>Provides study and laboratory exploration for the novice actor in the performance of an ensemble role in a contemporary comedy under the direction of a faculty or guest director. By audition and/or assignment by instructor.</td>
</tr>
<tr>
<td>TA 256B</td>
<td>Contemporary Comedy in Performance</td>
<td>(1)</td>
<td>CSU, UC</td>
<td>Eligibility for ENG 98 and 103</td>
<td>By audition and/or assignment by instructor.</td>
<td>54 lab</td>
<td>Study and laboratory exploration for the beginning actor in the performance of a cameo role in a contemporary comedy under the direction of a faculty or guest director.</td>
</tr>
<tr>
<td>TA 256C</td>
<td>Contemporary Comedy in Performance</td>
<td>(1.5)</td>
<td>CSU, UC</td>
<td>Eligibility for ENG 98 and 103</td>
<td>By audition and/or assignment by instructor.</td>
<td>81 lab</td>
<td>Provides study and laboratory exploration for the advanced-intermediate actor in the performance of a supporting role in a contemporary comedy under the direction of a faculty director.</td>
</tr>
<tr>
<td>TA 256D</td>
<td>Contemporary Comedy in Performance</td>
<td>(2)</td>
<td>CSU, UC</td>
<td>Eligibility for ENG 98 and 103</td>
<td>By audition and/or assignment by instructor.</td>
<td>108 lab</td>
<td>Provides study and laboratory exploration for the advanced actor in the performance of a leading role in a contemporary comedy under the direction of a faculty director.</td>
</tr>
<tr>
<td>TA 262A</td>
<td>Modern American Drama in Performance</td>
<td>(.5)</td>
<td>CSU, UC</td>
<td>Eligibility for ENG 98 and 103</td>
<td>By audition and/or assignment by instructor.</td>
<td>27 lab</td>
<td>Provides study and laboratory exploration for the beginning actor in the performance of a supporting role in a modern drama under the direction of a faculty director.</td>
</tr>
<tr>
<td>TA 262B</td>
<td>Modern American Drama in Performance</td>
<td>(1)</td>
<td>CSU, UC</td>
<td>Eligibility for ENG 98 and 103</td>
<td>By audition and/or assignment by instructor.</td>
<td>54 lab</td>
<td>Provides study and laboratory exploration for the intermediate actor in the performance of a cameo role in a contemporary American drama under the direction of a faculty director.</td>
</tr>
<tr>
<td>TA 262C</td>
<td>Modern American Drama in Performance</td>
<td>(1.5)</td>
<td>CSU, UC</td>
<td>Eligibility for ENG 98 and 103</td>
<td>By audition and/or assignment by instructor.</td>
<td>81 lab</td>
<td>Provides study and laboratory exploration for the advanced-intermediate actor in the performance of a supporting role in a modern American drama.</td>
</tr>
<tr>
<td>TA 262D</td>
<td>Modern American Drama in Performance</td>
<td>(2)</td>
<td>CSU, UC</td>
<td>Eligibility for ENG 98 and 103</td>
<td>By audition and/or assignment by instructor.</td>
<td>108 lab</td>
<td>Provides study and laboratory exploration for the advanced actor in the performance of a supporting role in a modern American drama.</td>
</tr>
</tbody>
</table>
Provides study and laboratory exploration for the advanced actor in the performance of a leading role in a modern American drama.

**TA 263A — Classical Drama In Performance (0.5) — CSU, UC**
Skills Advisories: Eligibility for ENG 98 and 103
Limitation on Enrollment: Auditions for Public Performance
Hours: 27 lab

Provides study and laboratory exploration for the beginning actor in the performance of a supporting role in a classical drama, under the direction of a faculty director. By audition and/or assignment by instructor.

**TA 263B — Classical Drama in Performance (1) — CSU, UC**
Skills Advisories: Eligibility for ENG 98 and 103
Limitation on Enrollment: Auditions for Public Performance
Hours: 54 lab

Provides study and laboratory exploration for the intermediate actor in the performance of a cameo role in a classical drama, under the direction of a faculty director. By audition and/or assignment by instructor.

**TA 263C — Classical Drama in Performance (1.5) — CSU, UC**
Skills Advisories: Eligibility for ENG 98 and 103
Limitation on Enrollment: Auditions for Public Performance
Hours: 81 lab

Provides study and laboratory exploration for the advanced-intermediate actor in the performance of a supporting role in a classical drama.

**TA 263D — Classical Drama in Performance (2) — CSU, UC**
Skills Advisories: Eligibility for ENG 98 and 103
Limitation on Enrollment: Auditions for Public Performance
Hours: 108 lab

Provides study and laboratory exploration for the advanced actor in the performance of a leading role in a classical drama.

**TA 267A — Acting Styles: Shakespeare (3) — CSU, UC**
Prerequisites: TA 112 with a minimum grade of “C”
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 90 (54 lecture, 36 lab)

Introduces students to acting techniques employed to perform the works of William Shakespeare.

**TA 267B — Acting Styles: Stage Combat (3) — CSU, UC**
Corequisites: TA 112
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 90 (36 lecture, 54 lab)

Introduction to the concepts and practice of choreographed theatrical violence, including hand-to-hand and small weapons combat for stage and screen.

**TA 267C — Acting Styles: Musical Theatre Performance (3) — CSU, UC**
Corequisites: TA 112
Skills Advisories: Eligibility for ENG 98 and 103
Hours: 90 (36 lecture, 54 lab)

Prepares students to act and sing in a live musical theatre performance, with an emphasis on solo and duet songs.

**TA 299 — Independent Study in Theatre Arts (1-6) — CSU**
Skills Advisories: Eligibility for ENG 98 and 103
Limitation on Enrollment: 6 units of Theatre Arts courses completed with a 3.0 or higher GPA; minimum of 12 units of course work completed at SBCC, with GPA of at least 2.5.
Hours: 48-192 lab

Student works under guidance and direction of sponsoring faculty member on project consistent with interests and abilities. Minimal weekly meetings with faculty sponsor required. Course may be taken for one to six units of credit; each unit of credit requires student to devote approximately three hours per week to his/her project. (*UC Transfer Limit: computed as Independent Study; see counselor)*
Water Science

Certificates of Achievement
Wastewater Technology Education
Water Technology Education

Program Description
The Water Science Certificate Program is designed to serve those people employed or interested in employment in the water and/or wastewater fields and those who desire to upgrade their skills and/or receive certification from the State of California, the American Water Works Association, or the California Water Environment Association.

For further information, contact Dr. Alan Price, Dean, Educational Programs, aprice3@sbcc.edu.

Program Options
Wastewater Technology Education
Water Technology Education

Program Student Learning Outcomes
PSLO1 — Become familiar with state and federal regulations for water and wastewater treatment
PSLO2 — Apply mathematical problem solving techniques to water/wastewater problems.
PSLO3 — Use scientific methods to discover, analyze and resolve water/wastewater issues.
PSLO4 — Become knowledgeable about processes and equipment used in water treatment, water distribution, waste water treatment and waste water collection.
PSLO5 — Learn the principles of managing a water/wastewater utility.

Department Offices
Alan Price, Dean (A-218, ext. 2721)

Certificate Program
To receive the Certificate of Achievement in any of the program options, students must complete the required core courses for that option, one additional course from the Water Science elective list and one course from the elective support course list.

Certificate of Achievement:
Wastewater Technology Education
Department Requirements (24-27 units)
COMP 101 — Introduction to Computer Applications ..........4
WTRS 100 — Basic Wastewater Treatment ....................3
WTRS 103 — Pump and Motor Operation & Maintenance ..3
WTRS 105 — Water Science Chemistry and Bacteriology ..3
WTRS 113 — Water and Wastewater Hydraulics ..............3
WTRS 117 — Water and Wastewater Calculations or ........3
MATH 95 — Elementary Algebra................................5

Plus select two courses from the following:
ERTH 171 — Introduction to GIS and Maps or ............2
GEOG 171 — Introduction to GIS and Maps ................2
WTRS 102 — Water Systems Instrumentation & Controls ..3
WTRS 111 — Wastewater Collection ...........................3
WTRS 116 — Water and Wastewater Management ..........3

Complete all department requirements for the certificate with a cumulative grade point average (GPA) of 2.0 or better. Candidates for a Certificate of Achievement are required to complete at least 20% of the department requirements through SBCC.

Certificate of Achievement:
Water Technology Education
Department Requirements (24-27 units)
COMP 101 — Introduction to Computer Applications ..........4
WTRS 101 — Water Distribution Systems or ...............3
WTRS 110 — Basic Water Treatment ..........................3
WTRS 103 — Pump and Motor Operation & Maintenance ..3
WTRS 105 — Water Science Chemistry and Bacteriology ..3
WTRS 113 — Water and Wastewater Hydraulics ..............3
WTRS 117 — Water and Wastewater Calculations or ........3
MATH 95 — Elementary Algebra................................5

Plus select two courses from the following:
ERTH 171 — Introduction to GIS and Maps or ............2
GEOG 171 — Introduction to GIS and Maps ................2
WTRS 101* — Water Distribution Systems ..................3
WTRS 102 — Water Systems Instrumentation & Controls ..3
WTRS 106 — Groundwater Production and Protection .....3
WTRS 110* — Basic Water Treatment.................................3
WTRS 112 — Water Quality Protection and
Cross Connection Control ........................................3
WTRS 114 — Advanced Wastewater Treatment...............3
WTRS 116 — Water and Wastewater Management ..........3
*Note: WTRS 101 and 110 can only satisfy the core
requirement or the elective requirement, not both.

Complete all department requirements for the
certificate with a cumulative grade point average
(GPA) of 2.0 or better. Candidates for a Certificate of
Achievement are required to complete at least 20% of
the department requirements through SBCC.

Program Cost and Outcome
For planning purposes, the following webpages
provide information on the cost of attendance, program
length (assuming a student attends full-time), financing
options and historical student completion rates:

Wastewater Collection Option
www.sbcc.edu/financialaid/gainfulemployment/Water%20Science%20Wastewater%20Collection%20Option.htm

Water Distribution Option
www.sbcc.edu/financialaid/gainfulemployment/Water%20Science%20Water%20Distribution%20Option.htm

Wastewater Treatment Option
www.sbcc.edu/financialaid/gainfulemployment/Water%20Science%20Wastewater%20Treatment%20Option.htm

Water Treatment Option
www.sbcc.edu/financialaid/gainfulemployment/Water%20Science%20Water%20Treatment%20Option.htm

Water Science Courses

WTRS 100 — Basic Wastewater Treatment
(3)
Hours: 54 lecture
Study of the fundamentals of wastewater treatment,
covering public health, water quality control, operation
and maintenance of treatment facilities. Treatment
processes include sedimentation, biofiltration,
activated sludge, sludge digestion and chlorination.

WTRS 101 — Water Distribution Systems
(3)
Hours: 54 lecture
Designed for operators of water distribution systems.
Covered are types of reservoirs, pipeline materials,
pumps and appurtenances. The construction,
installation and repair of water distribution facilities are
discussed, as well as the administrative requirements
in the operation of systems.

WTRS 102 — Water Systems
Instrumentation and Controls
(3)
Hours: 54 lecture
Introduction to the principles and operation of
instrumentation and control devices used in water
and wastewater systems. Includes the measurement
of both open and closed channel flow, differential
pressure measurement, level transmitters, recording
devices, data acquisition and telemetry transmission.
Basic concepts of electrical theory are examined, as
well as their application to electrical control circuits and
SCADA systems.

WTRS 103 — Pumps and Motors:
Operation and Maintenance
(3)
Hours: 54 lecture
Overview of pumps and motors used in the
transmission of water. Emphasis is on the operation
and maintenance of pumps, motors and their controls.
Provides the maintenance technician with insights into
the reasons for selection, as well as causes of failures
and breakdowns. Application of hydraulics and pump
curves are used for the selection and performance
evaluation of pumps.

WTRS 104 — Advanced Water Treatment
(3)
Course Advisories: WTRS 100
Hours: 54 lecture
Second-level water treatment course. Designed
to augment and advance the topics addressed in
WTRS 110, Basic Water Treatment. Topics covered
are advanced water quality control during treatment,
treatment plant operation and maintenance,
regulations for water quality control, sludge handling
and water reclamation.
WTRS 105 — Water Science Chemistry and Bacteriology  
(3)  
Course Advisories: WTRS 100 or 110  
Hours: 54 lecture  
Review of the fundamentals of chemistry and bacteriology as applied to the treatment processes of water and wastewater. The emphasis is on understanding why certain reactions take place and the analytical techniques used in measuring water quality parameters. Includes demonstrations of laboratory procedures for physical, chemical and bacteriological examination of water.

WTRS 106 — Groundwater Production and Protection  
(3)  
Hours: 54 lecture  
Study intended for operators of groundwater production and treatment facilities. Subjects include construction of wells, operation and maintenance of production wells, cost accounting methods and protection of groundwater resources. Also a review of the applicable state and federal regulations governing groundwater development and protection.

WTRS 110 — Basic Water Treatment  
(3)  
Hours: 54 lecture  
Basic fundamental study of the aspects of operating a water supply system, treatment processing, microbiological control and chemical handling. Course can be used to qualify for state certification for Grades I, II and III Water Treatment Plant Operator’s Certificate.

WTRS 111 — Wastewater Collection  
(3)  
Hours: 54 lecture  
Designed for wastewater collection systems maintenance personnel. Included are sewer construction, cleaning methods, safety, elementary hydraulics, pipeline and manhole repair, equipment maintenance, public relations, communications and record-keeping.

WTRS 112 — Water Quality Protection and Cross Connection Control  
(3)  
Hours: 54 lecture  
Introduction to water quality protection by cross connection control. Required for preparation to become a Certified Backflow Prevention Device Tester. A review of the Uniform Plumbing Code and hydraulic principles as applied to the protection of public water supplies from contamination by plumbing connections in private systems.

WTRS 113 — Water and Wastewater Hydraulics  
(3)  
Course Advisories: WTRS 100 or 110  
Hours: 54 lecture  
Study of hydraulic principles as applied to the operation of water supply and wastewater systems. Topics include open channel flow, closed channel flow, pressure, force, flow measurement, pumping, head loss and treatment plant hydraulics.

WTRS 114 — Advanced Wastewater Treatment  
(3)  
Prerequisites: WTRS 110  
Hours: 54 lecture  
Study of the advanced techniques of operating a wastewater treatment plant, including process applications, regulatory compliance, environmental issues, costs and multi-step problem-solving.

WTRS 116 — Water and Wastewater Management  
(3)  
Hours: 54 lecture  
Study of supervisory and management skills necessary for the water professional to ensure that regulatory, health, safety and financial standards are met. Covered are planning, work methods, organization, personnel selection, training, discipline, motivation, leadership, safety, labor relations, public relations, politics and the ever-changing work environment.

WTRS 117 — Water and Wastewater Calculations  
(3)  
Hours: 54 lecture  
Problem-solving as applied to primary, secondary and tertiary water treatment operations.
Work Experience

Program Description
Santa Barbara City College offers three types of Work Experience—General Work Experience; General Work Experience: International; and Occupational Work Experience.

General Work Experience
General Work Experience 290 A, B and C assists students to acquire good work habits, attitudes and career awareness in actual job settings. Units are based on the number of hours worked throughout the semester: For paid work, 1 unit = 75 hours, 2 units = 150 hours, 3 units = 225 hours. For volunteer work, 1 unit = 60 hours, 2 units = 120 hours, 3 units = 180.

Internships and Volunteer Experience
Internships and volunteer experience can be a powerful career development tool. By participating in an internship students gain practical hands-on job experience, learn industry standards, and evaluate actual work environments. For paid internships, 1 unit = 75 hours, 2 units = 150 hours, 3 units = 225. For volunteer internships, 1 unit = 60 hours, 2 units = 120 hours, 3 units = 180. Students desiring to receive academic credit for internships and volunteer experience should sign up for WEXP 290—General Work Experience.

Refer to individual departments for department-based internship opportunities and course listings.

General Work Experience: International
International Work Experience assists students to acquire desirable work habits in foreign job settings and to develop an understanding of the role of international business, the foreign country’s work habits, economy, labor laws and cultural/political factors that affect employment.

By satisfactorily completing the International Work Experience course, a student may earn up to six units per semester. Units are based on the number of hours worked throughout the semester: For paid work, 1 unit = 75 hours, 2 units = 150 hours, and 3 units = 225. For volunteer work, 1 unit = 60 hours, 2 units = 120 hours, 3 units = 180 hours.

Program Office
Christopher Phillips, General Work Experience
(Career Center, SS-282, ext. 2331)

Program/Student Expectations
For each semester that a student is enrolled in Work Experience, it is required that the student provide evidence of new or expanded responsibilities or learning opportunities beyond those experienced during previous employment.

Satisfactory completion of specific job-oriented learning objectives is required for determining the student’s progress and improvement of performance on the job.

Occupational Work Experience
This type of work experience combines on-the-job training with classroom instruction, enabling the student to acquire knowledge, skills and attitudes necessary to enter and/or progress in a chosen occupation. Class attendance in a regularly scheduled weekly coordinating class is required by some SBCC departments.

By satisfactorily completing the Occupational Work Experience course, a student may earn one to four (1-4) college units. A maximum of sixteen (16) such units may be applied as electives toward the 60 units required for an Associate in Arts or Science Degree.

Occupational Work Experience Prerequisites
An Occupational Work Experience class must be directly related to the student’s stated major and the college program in which he/she is enrolled.

Participating Faculty
Contact the chairperson or faculty adviser of the respective department offering Occupational Work Experience, as listed in this Catalog.
Occupational Majors Offering Work Experience
For Occupational Work Experience information, the student should contact the department chairperson or faculty adviser for the major in which he/she is interested, including:
Addictive Disorders Counseling
Automotive Service and Technology
Business Administration
Computer Applications and Office Management
Computer Information Systems
Cosmetology
Culinary Arts
Diagnostic Medical Sonography
Drafting/CAD
Early Childhood Education
English as a Second Language
Environmental Horticulture
Finance
Graphic Design and Photography
Hotel Management
Interior Design
Journalism
Justice Studies
Marine Diving Technologies
Medical Imaging Sciences
Multimedia Arts and Technologies
Nursing (ADN)
Physical Education
Professional Development Studies
Real Estate
Spanish

Occupational Counseling/Guidance
It is most important for a student to consult with the respective occupational department chairperson, counselor, or adviser before planning a program of study. See the faculty/staff listings for the appropriate department, as listed earlier in this Catalog.

Job Referral Services
The Career Center receives numerous job, Internship and volunteer postings from employers and organizations in the community. The center can provide referrals for part-time and full-time jobs and internships. The center maintains an online job referral system and sponsors an annual Job Fair, held every spring, that invites local employers and allows students to learn about career opportunities and to apply for job openings. Additional information about job referral is available at the Career Center, Student Services Building, Room 282, or call (805) 965-0581, ext. 2331.

Work Experience Courses
WEXP 290A — General Work Experience – Career Planning Skills
(1-3) — CSU
Hours: 60-225 lab
Provides students with opportunities to develop marketable skills in preparation for employment or advancement within a career. Designed for students interested in exploring various career and education options and developing career and education planning skill. Appropriate level learning objectives are established by the student and the employer.

WEXP 290B — General Work Experience – Career Advancement Skills
(1-3) — CSU
Hours: 60-225 lab
Provides students with opportunities to develop marketable skills in preparation for employment or advancement within a career. It is designed for students interested in improving their resumé writing, interviewing and job search skills. Appropriate level learning objectives are established by the student and the employer.

WEXP 290C — General Work Experience – Workplace Success Skills
(1-3) — CSU
Hours: 60-225 lab
Provides students with opportunities to develop marketable skills in preparation for employment or advancement within a career. It is designed for students interested in improving their workplace success skills. Appropriate level learning objectives are established by the student and the employer.
WEXP 291 — General Work Experience:
International
(1-6) — CSU
Limitation on Enrollment: Permission to work abroad. Consists of 75-450 hours of work (1-6 units) in international (foreign country) employment, plus 2 hours of individual student/faculty conference. Assistance may be provided in obtaining a foreign work permit.
Hours: 60-450 lab

Supervised employment of students with the intent of creating student awareness of international work opportunities, assisting them to acquire desirable work habits in foreign job settings. Focus also includes developing an understanding of the role of international business, the foreign country’s work habits, economy, labor laws and cultural/political factors that affect employment. Special attention paid to how work in the foreign country is similar to and different from work in the United States. Positions held need not be related to major. Students perform assigned responsibilities as an employee; follow employer’s policies; write individual learning objectives; keep a record of time worked; fill out a student data sheet; and secure an employee evaluation.
Basic Skills

Adult High School

ABE 001 — Skills Development I
Hours: 20-60
Skills Development I offers individualized, small group, and one-on-one tutoring instruction in basic literacy, writing fluency, math, computer literacy and applied life skills. Students who test below a high school level in reading and writing can work to bring their skills up to higher levels. Students may also work to improve reading and writing skills for career or personal goals. Open enrollment. No prerequisites.

ABE 002 — Skills Development II
Hours: 20-60
Skills Development II builds on skills acquired in Skills Development I by offering individualized, small group, and one-on-one tutoring instruction in reading, writing, mathematics, computer, test-taking and academic study skills. Students who test below a high school level in reading, writing, and/or math can work to bring skills up to higher levels. Students may also work to improve reading, writing and math skills for career or personal goals. Open enrollment. No prerequisites.

ABE 034 — Basic Skills Enrichment
Hours: 20-60
In a friendly, non-pressure atmosphere, brush up on reading, writing, spelling, math and other subjects. Whatever your current level is now, you can work at your own pace to develop the skills you need to reach your goals—whether it be earning a diploma, studying for the GED, working toward a job promotion, going back to college, helping your children with schoolwork, or just improving your reading, writing and math skills for your own satisfaction.

HSBI 010 — Marine Biology
(5)
Hours: 72
This text-based course teaches students about marine organisms, marine habitats and global marine issues. It also teaches students about the characteristics of marine organisms as well as their role in their unique environments. Utilizes scientific resources structured to give students a hands-on experience without having to leave the classroom and addresses state science standards, state environmental principles and state writing standards. Evaluation takes the form of review questions, critical thinking essays and examinations.

HSBI 020 — Oceanography
(5)
Hours: 72
This course covers the basics of oceanography, beginning with oceans, marine geological formations, currents and waves. Animal and plant life in the ocean is also covered with a discussion of ecological concerns and pollution. Additionally, the student is expected to explore a current scientific issue related to the course. Evaluation takes the form of tests based on presented material.

HSBI 030 — Biology
(10)
Hours: 144
This competency-based survey course introduces students to the basic concepts necessary to understand the diversity and complexity of life on earth. Topics covered include the scientific method, the chemistry of living things, cell structure and function, genetics and heredity, evolution and adaptation, unicellular and multicellular organisms, human biology and ecology. Textbooks are supplemented with interactive, multimedia and software assignments. Evaluation takes the form of regular student-instructor conferencing, quizzes and a final exam.

HSCA 010 — Learning Skills: PowerPoint
(2)
Hours: 30
Using Professor Teaches Software Tutorials, this competency-based course promotes an understanding of the skills necessary to take full advantage of Microsoft Office PowerPoint. Topics covered include formatting and designing slides, creating and presenting slideshow presentations, and using templates, sound effects and images. Software-based quizzes, instructor conferencing and individualized final projects measure skill mastery. Offered under Individualized Instruction and is open only to those seeking to complete a high school diploma in the SBCC Adult High School (AHS) program.
HSCA 020 — Learning Skills: Access
(2)
Hours: 30
Using Professor Teaches Software Tutorials, this competency-based course promotes an understanding of the skills necessary to take full advantage of Microsoft Office Access. Topics covered include designing and managing databases, using macros and queries to manage data, designing forms and creating reports. Software-based quizzes, instructor conferencing and individualized final projects measure skill mastery. Offered under Individualized Instruction and is open only to those seeking to complete a high school diploma in the SBCC Adult High School (AHS) program.

HSCA 030 — Learning Skills: Outlook
(2)
Hours: 30
Using Professor Teaches Software Tutorials, this competency-based course promotes an understanding of the skills necessary to take full advantage of Microsoft Office Outlook. Topics covered include designing and managing personal calendars and schedules, using and maintaining inboxes and contacts, and scheduling tasks. Software-based quizzes, instructor conferencing and individualized final projects measure skill mastery. Offered under Individualized Instruction and is open only to those seeking to complete a high school diploma in the SBCC Adult High School (AHS) program.

HSCA 040 — Learning Skills: Excel
(2)
Hours: 30
Using Professor Teaches Software Tutorials, this competency-based course promotes an understanding of the skills necessary to take full advantage of Microsoft Office Excel. Topics covered include designing and managing spreadsheets, using spreadsheets to manage data, and creating charts, graphs, formulas and functions. Software-based quizzes, instructor conferencing and individualized final projects measure skill mastery. Offered under Individualized Instruction and is open only to those seeking to complete a high school diploma in the SBCC Adult High School (AHS) program.

HSCA 050 — Learning Skills: Word Basics
(2)
Hours: 30
Using Professor Teaches Software Tutorials, this competency-based course promotes an understanding of the skills necessary to take full advantage of Microsoft Office Word. Topics covered include document formatting and editing, creating tables and templates and collaborating on the production of documents. Software-based quizzes, instructor conferencing and individualized final projects measure skill mastery. Offered under Individualized Instruction and is open only to those seeking to complete a high school diploma in the SBCC Adult High School (AHS) program.

HSEA 010 — Earth Science
(10)
Hours: 144
This competency-based survey course in Earth Science systematically covers the study of the solid Earth, its waters, atmosphere, and Earth's place in the solar system. In geology, students study the origin, history and structure of Earth and the processes that shape its surface. In oceanography, students learn about the characteristics and dynamics of the Earth's oceans and other waters. The section on meteorology covers the atmosphere and its changing conditions, including weather and climate. The astronomy section studies the motions of our planet and objects outside of Earth. In relation to the other branches of Earth Science, students will also study ecology.

HSEC 010 — Economics
(5)
Hours: 72
This competency-based course stresses conceptual knowledge of capitalism and the free enterprise system. Brief comparisons are made to other economic systems. Topics also include banking, government, industry and trade. Unit quizzes provide teacher and student feedback about the student's progress. At the end of each unit, students write short essays on issues-oriented topics. Post-tests for assessment of competency are required.
HSEN 001 — Reading and Composition 1  
(10)  
Hours: 144  
This literature-based course teaches students to compose sentences and well-developed paragraphs by using the same writing tools as the renowned authors of the stories in the text. The introduction of literature assists students in developing reading and critical thinking skills and serves as a model of good writing. Includes a review of language mechanics and grammar, and utilizes processes known to enhance writing success, including self-editing and teacher conferencing. Evaluation takes the form of writing assessment by the instructor and tests based on material presented.

HSEN 001A — Reading and Composition 1A  
(5)  
Hours: 72  
This literature-based course teaches students to compose sentences and well-developed paragraphs by using the same writing tools as the renowned authors of the stories in the text. The introduction of literature assists students in developing reading and critical thinking skills and serves as a model of good writing. Includes a review of language mechanics and grammar, and utilizes processes known to enhance writing success, stressing self-editing and regular teacher conferencing. Evaluation takes the form of writing portfolio assessment by the instructor and reviews based on material presented.

HSEN 001B — Reading and Composition 1B  
(5)  
Hours: 72  
This literature-based course teaches students to compose sentences and well-developed paragraphs. The introduction of literature assists students in developing reading and critical thinking skills and serve as a model of good writing. Includes a review of language mechanics and grammar, and utilizes processes known to enhance writing success, stressing self-editing and regular teacher conferencing. Evaluation takes the form of writing portfolio assessment by the instructor and reviews based on material presented.

HSEN 002 — Reading and Composition 2  
(10)  
Hours: 144  
This literature-based course teach students to compose sentences and well-developed paragraphs by using the same writing tools as the renowned authors of the stories in the text. The introduction of literature assists students in developing reading and critical thinking skills and serves as a model of good writing. Includes a review of language mechanics and grammar, and utilizes processes known to enhance writing success, including self-editing and teacher conferencing. Evaluation takes the form of writing assessment by the instructor and tests based on material presented.

HSEN 002A — Reading and Composition 2A  
(5)  
Hours: 72  
This literature-based course teaches students to incorporate sentences and well-developed paragraphs into three-paragraph essays by using the same writing tools as the renowned authors of the stories in the text. The introduction of literature assists students in developing reading and critical thinking skills and serves as a model to inspire student writing. Includes a review of language mechanics and grammar, and utilizes processes known to enhance writing success, stressing self-editing and regular teacher conferencing. Evaluation takes the form of writing portfolio assessment by the instructor and unit reviews based on material presented.

HSEN 002B — Reading and Composition 2B  
(5)  
Hours: 72  
This literature-based course develops students’ ability to incorporate sentences and well-developed paragraphs into three-paragraph essays demonstrating critical thought and basic literary analysis. The introduction of literature assists students in developing reading and critical thinking skills and serves as a model of good writing. Utilizes processes known to enhance writing success, stressing self-editing and regular teacher conferencing. Evaluation takes the form of writing portfolio assessment by the instructor and reviews based on material presented.
HSEN 003 — Reading and Composition 3
(10)
Hours: 144
This literature-based course teaches students to compose sentences and well-developed paragraphs by using the same writing tools as the renowned authors of the stories in the text. The introduction of literature assists students in developing reading and critical thinking skills and serves as a model of good writing. Includes a review of language mechanics and grammar, and utilizes processes known to enhance writing success, including self-editing and teacher conferencing. Evaluation takes the form of writing assessment by the instructor and tests based on material presented.

HSEN 003A — Reading and Composition 3A
(5)
Hours: 72
This literature-based course teaches students to incorporate sentences and well-developed paragraphs into five-paragraph essays by using the same writing tools as the renowned authors of the stories in the text. The introduction of literature assists students in developing reading and critical thinking skills and serves as a model of good writing. Includes a review of language mechanics and grammar, and utilizes processes known to enhance writing success, including self-editing and teacher conferencing. Evaluation takes the form of writing assessment by the instructor and tests based on material presented.

HSEN 003B — Reading and Composition 3B
(5)
Hours: 72
This literature-based course teaches students to incorporate sentences and well-developed paragraphs into five-paragraph essays by using the same writing tools as the renowned authors of the stories in the text. The introduction of literature assists students in developing reading and critical thinking skills and serves as a model of good writing. Includes a review of language mechanics and grammar, and utilizes processes known to enhance writing success, including self-editing and teacher conferencing. Evaluation takes the form of writing assessment by the instructor and tests based on material presented.

HSHE 010 — Health
(5)
Hours: 72
This course covers the following topics: Nutrition for health and weight control; the roles of sleep, rest and exercise in health; first aid; abuse of licit and illicit drugs; diseases and their prevention; and pollution and health. Students are evaluated on the basis of their responses to unit quizzes and Internet search projects.

HSHI 020 — World History: Modern Regions
(5)
Hours: 72
This competency-based course begins with introductions to the use of primary sources in history and methods and theories in historiography. Students examine the roles of anthropology, epistemology and politics in the study of history. The developments of nationalism and state formation, liberalism and modern politics are contextualized by close readings of primary source documents on the cultures, economics and politics of the regions of Latin America, Asia, Israel and Palestine, and Africa.

HSHI 030 — American History: Part 1
(5)
Hours: 72
The course covers the political, social, cultural and economic history of the U.S. It begins with an overview of the history of the American indigenous population before the arrival of European explorers, continuing through the colonization period. Focus is placed on the development of democratic ideals and institutions. Continues with a history of Africans in America, their culture and contributions. Issues and events leading to the American Revolution, the effects of the war itself, and the creation and content of the Constitution are covered. This course develops skills in written expression, analysis, interpretation of maps and graphs, and critical thinking.

HSHI 040 — American History: Part 2
(5)
Hours: 72
This course covers U.S. History from 1865 to the present, with emphasis on the major trends of the 20th century. Survey of political, economic, diplomatic, social, multi-cultural events and influences.
HSII 001 — Individualized Instruction: All Subjects
(10)
Hours: 32-144
Offers individualized instruction provided by instructors in all high school subjects: Reading, comprehension, spelling, vocabulary and grammar development, writing, mathematics and more. Prepares students for the diploma-program competency tests in reading, writing, and mathematics as well as for the GED tests. Open enrollment.

HSII 002 — The Learning Center:
A Multimedia Learning Lab
Hours: 144
Based on the Open Lab style of learning, The Learning Center is designed for students in the Vocational, ESL, Literacy and Adult High School programs. Whether they need job preparation, GED study or reading and writing improvement, students can come when it’s convenient, focus on their own educational goals and study a variety of subjects. Students work at their own pace, take advantage of an interactive multimedia setting, and receive individual attention from The Learning Center teachers.

HSMA 001— Math 1
Hours: 144
Skills Development I offers individualized, small group, and one-on-one tutoring instruction in basic literacy, writing fluency, math, computer literacy and applied life skills. Students who test below a high school level in reading and writing can work to bring their skills up to higher levels. Students may also work to improve reading and writing skills for career or personal goals. Open enrollment. No prerequisites.

HSMA 010 — Mathematics A
(Whole Number Arithmetic)
(5)
Hours: 72
This competency-based course reviews arithmetic, beginning with basic number concepts, like place value, ordinal value and estimation. It also reviews the four basic operations with whole numbers and introduces problem-solving strategies and life skills and workplace math. Pretests for accurate placement and prescription, and post-tests for measurement of mastery are utilized.

When taken in sequence with Mathematics B and algebra/geometry, this course prepares students for success in high school mathematics and in applying math to everyday life and work problems.

HSMA 020 — Mathematics B
(Fractions, Decimals and Percents)
(5)
Hours: 72
This competency-based course reviews computation and problem-solving skills with decimals, fractions and percents. Geometry (perimeter, area, volume), estimation, problem-solving strategies, life skills and workplace math, are included. Pretest for accurate placement and prescription, and post-tests for measurement of mastery are utilized. When taken in sequence with Mathematics A and algebra or geometry, this course prepares students for passing the Adult High School competency tests, the GED math test, and success in high school mathematics and in applying math to everyday life and work problems.

HSMA 030 — Math C Pre-Algebra
(5)
Hours: 72
This competency-based course teaches problem solving strategies and their application in percent, ratio, proportion, measurement, and the use of formulas and equations. Students learn basic geometry, graphing, probability, squares and roots. Students learn to solve monomial equations and how to apply them. In the areas of ratios, proportions and percent, students learn to calculate interest, commissions, discounts, and rates of increase, as well as apply ratio and proportion strategies to solve common travel and finance questions. Students are also able to interpret graphs, charts, tables and meters. Pre-tests for accurate placement and post-tests for measurement of mastery are used for assessment. Successful completion of this course prepares a student for a high school algebra course.

HSMA 040 — Integrated Mathematics 2: Algebra
(10)
Hours: 144
This competency-based course stresses the appropriate use of problem-solving strategies. It builds upon previous math courses and life experience with review and by addressing algebraic concepts
and expressions. Life skills and workplace math are integrated into the course assignments. Pretests for accurate placement and prescription, and post-tests for measurement of mastery are utilized.

**HSMA 050 — Integrated Mathematics 3: Geometry (10)**
*Hours: 144*

This competency-based course builds skills in basic geometry, the study of measurements and relationships of lines, angles, plane figures and solid figures. Topics include the study of angles and triangles and the study of distance, area and volume. Skills developed include estimation, mental math and calculator use. The topics and skills that are emphasized in this course are useful in many occupations, real-life problem-solving, and educational and vocational tests.

**HSPD 010 — Learning Skills: Note Taking Strategies (1)**
*Hours: 15*

This course expands students’ knowledge of note-taking techniques and purposes. Topics include basic functions of note-taking, pre-reading strategies, The Cornell Method, clustering and outlining. Students may attend a note-taking workshop and complete the assignments or the Independent Study module in lieu of attending a workshop.

**HSPD 020 — Learning Skills: Time Management (1)**
*Hours: 15*

This course helps students manage time effectively and create healthier lifestyle patterns. Topics include scheduling and how to avoid cramming. Students may take the time management workshop and complete the assignments or the Independent Study module in lieu of attending a workshop.

**HSPD 030 — Learning Skills: Learning Styles (1)**
*Hours: 15*

This course teaches students to identify their personal learning styles and how to adapt them to dominant teaching styles. Topics include the Learning Styles Questionnaire, the four learning styles and matching students’ learning styles and strategies. Students may take the Learning Styles workshop and complete the assignments or the Independent Study module in lieu of attending a workshop.

**HSPD 040 — Learning Skills: Test Taking Skills (1)**
*Hours: 15*

This course builds student test-taking confidence by examining academic and emotional management techniques. Topics include test anxiety, test preparation, and strategies to use during the test and before turning in the test. Students may take the Test Taking Skills workshop and complete the assignments or the Independent Study module in lieu of attending a workshop.

**HSPD 050 — Learning Skills: Writing Skills (1)**
*Hours: 15*

This interactive course allows students to examine strategies for revising their writing at different stages of the writing process. Topics include assignment analysis, self-editing strategies, organizing a paper and developing a thesis. Students may take the workshop and complete the assignments or the Independent Study module in lieu of attending a writing skills workshop.

**HSPS 020 — Survey of U.S. Government (5)**
*Hours: 72*

This survey course covers the core areas of U.S. democracy and politics and contextualizes them in terms of current events. Students also receive instruction on college readiness skills, including pre-reading and note-taking strategies. Competency in the subject matter is evaluated throughout the course with chapter tests and a final exam.

**HSV 010 — Visual Arts and Media Techniques/Art Studio (5)**
*Hours: 72*

This competency-based course promotes an understanding of visual arts and media techniques and the skills associated with composition and design to
help students create art. In order to receive 10 units for the class, students are expected to simultaneously enroll in an art studio course and/or produce a portfolio of artwork demonstrating their understanding of visual literacy and compositional techniques. Pre-tests and instructor conferencing are utilized for accurate placement and prescription, and portfolio analysis helps measure skill mastery.

**HSVA 020 — Visual Arts and Media Techniques/Art Studio 1**  
*5*  
*Hours: 72*  
Adult High School Diploma Program course provides an introduction to the visual arts, media techniques, and design skills to help students create art. Students simultaneously take art studio courses and produce a portfolio of artwork demonstrating an understanding of visual arts and media techniques.

**HSVA 030 — Visual Arts and Media Techniques/Art Studio 2**  
*5*  
*Hours: 72*  
Adult High School Diploma Program course provides an introduction to visual literacy, media and skills associated with design to help students interpret the meaning of art. Students simultaneously take art studio courses and produce a portfolio of artwork demonstrating an understanding of visual literacy and composition techniques.

**HSWH 010 — World History: Early Civilization**  
*5*  
*Hours: 72*  
This competency-based course surveys ancient world history, examining human achievements in the Middle East, Mediterranean, Asian, African and Mesoamerican regions. It closes with a focus on the conquest and colonization of Latin America to illustrate the ancient civilizations’ impact with modernity. Students are introduced to methods and theories in historiography before they are asked to critically read and write about primary sources pertinent to the histories of the civilizations in these regions.

**HSWH 020 — World History: Modern Regions**  
*5*  
*Hours: 72*  
This competency-based course begins with an introduction to the use of primary sources in history and to methods and theories in historiography. Students examine the roles of anthropology, epistemology and politics in the study of history. The developments of nationalism and state formation, liberalism and modern politics are contextualized by close readings of primary source documents on the cultures, economics and politics of the regions of Latin America, Asia, Israel, Palestine and Africa.

**Bilingual GED**

**GEDB NC060 — GED Test Subject - Bilingual Reading**  
*Hours: 60*  
This course covers Reading GED subject matter and provides students with test-taking skills, critical thinking and reading skills, and the interpretation of graphs, tables and illustrations. GED books are used to ensure that the information students obtain is directly related to the Science examination, and practice tests are administered to verify that students are prepared to take (and pass) the Science subject test in Spanish.

**GEDB NC070 — GED Test Subject - Bilingual Social Studies**  
*Hours: 60*  
This course covers Social Studies GED subject matter and provides students with test-taking skills, critical thinking and reading skills, and the interpretation of graphs, tables and illustrations. GED books are used to ensure that the information students obtain is directly related to the Science examination, and practice tests are administered to verify that students are prepared to take (and pass) the Science subject test in Spanish.
GEDB NC 080 — GED Test Subject - Bilingual Science
Hours: 60
This course covers Science GED subject matter and provides students with test-taking skills, critical thinking and reading skills, and the interpretation of graphs, tables and illustrations. GED books are used to ensure that the information students obtain is directly related to the Science examination, and practice tests are administered to verify that students are prepared to take (and pass) the Science subject test in Spanish.

GEDB NC 090 — GED Test Subject - Bilingual Writing
Hours: 60
This course covers Writing GED subject matter and provides students with test-taking skills, critical thinking and reading skills, and various approaches to essay writing including descriptive and narrative prose. GED books are used to ensure that the information students obtain is directly related to the Writing examination, and practice tests are administered to verify that students are prepared to take (and pass) the Writing subject test in Spanish.

GEDB NC 100 — GED Test Subject - Bilingual Mathematics
Hours: 60
This course covers Mathematics GED subject matter and provides students with test-taking skills, critical thinking and reading skills, and the interpretation of graphs, tables and illustrations. GED books are used to ensure that the information students obtain is directly related to the Mathematics examination, and practice tests are administered to verify that students are prepared to take (and pass) the Mathematics subject test in Spanish.

GED

GED NC 010 — GED Test Subject - Reading
Hours: 60
This course covers Reading GED subject matter and provides students with test-taking skills, critical thinking and reading skills, and the interpretation of graphs, tables and illustrations. GED books are used to ensure that the information students obtain is directly related to the Reading examination, and practice tests are administered to verify that students are prepared to take (and pass) the Reading subject test.

GED NC 020 — GED Test Subject - Social Studies
Hours: 60
This course covers Social Studies GED subject matter and provides students with test-taking skills, critical thinking and reading skills, and the interpretation of graphs, tables and illustrations. GED books are used to ensure that the information students obtain is directly related to the Social Studies examination, and practice tests are administered to verify that students are prepared to take (and pass) the Social Studies subject test.

GED NC 030 — GED Test Subject - Science
Hours: 60
This course covers Science GED subject matter and provides students with test-taking skills, critical thinking and reading skills, and the interpretation of graphs, tables and illustrations. GED books are used to ensure that the information students obtain is directly related to the Science examination, and practice tests are administered to verify that students are prepared to take (and pass) the Science subject test.

GED NC 040 — GED Test Subject - Writing
Hours: 60
This course covers Writing GED subject matter and provides students with test-taking skills, critical thinking and reading skills, and various approaches to essay writing including descriptive and narrative prose. GED book are used to ensure that the information students obtain is directly related to the Writing examination, and practice tests are administered to verify that students are prepared to take (and pass) the Writing subject test.

GED NC 050 — GED Test Subject - Mathematics
Hours: 60
This course covers Mathematics GED subject matter and provides students with test-taking skills, critical thinking and reading skills, and the interpretation of graphs, tables and illustrations. GED books are used to ensure that the information students obtain is directly related to the Mathematics examination, and practice tests are administered to verify that students are prepared to take (and pass) the Mathematics subject test.
used to ensure that the information students obtain is directly related to the Mathematics examination, and practice tests are administered to verify that students are prepared to take (and pass) the Mathematics subject test.

## English as a Second Language (ESL)

**ESL NC01A — ESL 1 - A: Beginning Low**  
*Hours: 40-50*  
Students learn to listen, speak, read and write in English at a beginning low level. Students increase social/cultural interactions and develop ability to integrate into the community and the classroom. Other topics include greetings, phrases, filling out forms with personal information, soft transferable skills for employment, learning strategies, and questions and commands for daily interactions, in class, work and community. Grammar and vocabulary are incorporated in dialogues and question/answer interactions throughout course.

**ESL NC01B — ESL 1 - B: Beginning Low**  
*Hours: 40-50*  
Students learn to listen, speak, read and write in English at a beginning low level. Students increase social/cultural interactions and develop ability to integrate into the community and the classroom. Other topics include greetings, phrases, filling out forms with personal information, soft transferable skills for employment, learning strategies, and questions and commands for daily interactions, in class, work and community. Grammar and vocabulary are incorporated in dialogues and question/answer interactions throughout course.

**ESL NC01C — ESL 1 - C: Beginning Low**  
*Hours: 40-50*  
Students learn to listen, speak, read and write in English at a beginning low level. Students increase social/cultural interactions and develop ability to integrate into the community and the classroom. Other topics include greetings, phrases, filling out forms with personal information, soft transferable skills for employment, learning strategies, and questions and commands for daily interactions, in class, work and community. Grammar and vocabulary are incorporated in dialogues and question/answer interactions throughout course.

**ESL NC01D — ESL 1 - D: Beginning Low**  
*Hours: 40-50*  
Students learn to listen, speak, read and write in English at a beginning low level. Students increase social/cultural interactions to talk about housing, purchasing food, giving directions, and phone skills. Other topics include government and law, national holidays, U.S. presidents, describing a house, food labels, shopping lists, soft transferable skills for employment and learning strategies.

**ESL NC02A — ESL 2 - A: Beginning High**  
*Hours: 40-50*  
Students learn to listen, speak, read and write in English at a beginning high level. Students gain skills for successful social/cultural interactions and increase their ability to integrate into the English-speaking community and classroom. Other topics include providing personal information, describing people, identifying school personnel, creating a schedule, taking a simple phone message, and talking about transportation. Grammar and vocabulary are incorporated in dialogues, stories, paragraphs and question/answer interactions throughout course.

**ESL NC02B — ESL 2 - B: Beginning High**  
*Hours: 40-50*  
Students learn to listen, speak, read and write in English at a beginning high level. Students gain skills to seek and apply for jobs and describe common symptoms, diseases and conditions to a doctor. Other topics include reading directions, dosages and warnings on medicine labels; talking about ways to stay healthy; and responding appropriately to job interview questions. Grammar and vocabulary are incorporated in dialogues, stories, paragraphs and question/answer interactions throughout course.

**ESL NC02C — ESL 2 - C: Beginning High**  
*Hours: 40-50*  
Students learn to listen, speak, read and write in English at a beginning high level. Students gain skills to interact in social and cultural situations and increase ability to handle currency and change. Topics include initiating and answering invitations and offers, polite requests, apologies, compliments and sympathy. Additional topics include filling out a money order properly, requesting
availability and location of items in a store, and returning an item. Grammar and vocabulary are incorporated in dialogues, stories, paragraphs and question/answer interactions throughout course.

**ESL NC02D — ESL 2 - D: Beginning High**  
*Hours: 40-50*

Students learn to listen, speak, read and write in English at a beginning high level. Students gain skills to secure housing, food and meals. Other topics include describing an issue with a rental unit to a landlord, identifying common containers and amounts of food, using proper language to order at a restaurant, and identifying simple traffic signs and symbols. Grammar and vocabulary are incorporated in dialogues, stories, paragraphs and question/answer interactions throughout course.

**ESL NC03A — ESL 3 - A: Intermediate Low**  
*Hours: 40-50*

Students learn to listen, speak, read and write in English at an intermediate low level. Students expand social/cultural interactions, including problem-solving, and ability to integrate into the English-speaking community and classroom. Other topics include providing personal information to fill out authentic forms, resolving school and transportation issues, engaging in telephone conversations, and talking about learning styles. Grammar and vocabulary are incorporated in dialogues, stories, paragraphs and question/answer interactions throughout course.

**ESL NC03B — ESL 3 - B: Intermediate Low**  
*Hours: 40-50*

Students learn to listen, speak, read and write in English at an intermediate low level. Students expand ability to interact in the community, obtain food and housing, and understand local and federal laws. Other topics include interpreting diagrams, coupons, offers, maps, schedules, creating maps, giving directions and creating a schedule, an ad, or a sign. Grammar and vocabulary are incorporated in dialogues, stories, paragraphs and question/answer interactions throughout course.

**ESL NC03C — ESL 3 - C: Intermediate Low**  
*Hours: 40-50*

Students learn to listen, speak, read and write in English at an intermediate low level. Students expand social/cultural interactions to include problem-solving, and ability to purchase and return items. Other topics include talking about recreational activities, returning and exchanging items at a store, as well as engaging in banking and several forms of payment. Grammar and vocabulary are incorporated in dialogues, stories, paragraphs and question/answer interactions throughout course.

**ESL NC03D — ESL 3 - D: Intermediate Low**  
*Hours: 40-50*

Students learn to listen, speak, read and write in English at an intermediate low level. Students expand ability to research and teach others about educational opportunities by identifying and describing strengths. Topics include completing all written material for a job interview (application, resume and cover letter). Grammar and vocabulary are incorporated in dialogues, stories, paragraphs and question/answer interactions throughout course.

**ESL NC04A — ESL 4 - A: Intermediate High**  
*Hours: 40-50*

Students learn to listen, speak, read and write in English at an intermediate high level. Students expand ability to research and teach others about educational opportunities by identifying and describing strengths. Topics include completing all written material for a job interview (application, resume and cover letter). Grammar and vocabulary are incorporated in dialogues, stories, paragraphs and question/answer interactions throughout course.

**ESL NC04B — ESL 4 - B: Intermediate High**  
*Hours: 40-50*

Students learn to listen, speak, read and write in English at an intermediate high level. Students expand ability to complete medical and insurance forms and navigate the healthcare system with ease. Topics include working as part of a team in the workplace, completing a job evaluation process, and supervising and leading others. Grammar and vocabulary are incorporated in dialogues, stories, paragraphs and question/answer interactions throughout course.
ESL NC04C — ESL 4 - C: Intermediate High
Hours: 40-50
Students learn to listen, speak, read and write in English at an intermediate high level. Students expand ability to interact with native English speakers in social situations and for recreational purposes. Topics include engaging in personal and family financial planning and expressing consumer complaints. Grammar and vocabulary are incorporated in dialogues, stories, paragraphs and question/answer interactions throughout course.

ESL NC04D — ESL 4 - D: Intermediate High
Hours: 40-50
Students learn to listen, speak, read and write in English at an intermediate high level. Students expand ability to interact in social/cultural situations, including skills in decision-making, teamwork, and the ability to integrate fully into the community. Topics include planning for additional educational opportunities (vocational certificates, two-year degrees or additional computer training). Grammar and vocabulary are incorporated in dialogues, stories, paragraphs and question/answer interactions throughout course.

(ESL) Citizenship

ESL NC040 — Preparation for U.S. Naturalization-ESL
Hours: 40-50
This class prepares immigrants to take the written and oral portions of the USCIS citizenship test in English. Topics include United States government, history and vocabulary for the questions included in the test. Students learn to read, write and comprehend the questions to answer verbally and appropriately for the interviewing officer.

(ESL) Elective

ESL NC000 — Introduction to ESL
Hours: 40-50
Students learn to identify symbols in their lives including, but not limited to letters, numbers, time, direction, money, calendar, schedules and appointments. Students learn to listen, speak, read and write in English at a pace determined by their own abilities and progress. Students increase confidence in classroom skills, such as copying from the board, responding to teacher’s questions, asking for help, working from handouts, working in pairs and groups.

ESL NC005 — Pronunciation and Speaking Skills: Beginning ESL
Hours: 18-25
Students practice beginning level speaking skills related to daily life situations and tasks. Students learn pronunciation basics for English language proficiency, and gain confidence in appropriate and clear verbal interaction for community and classroom. Topics include personal information, family, jobs, school and daily life.

ESL NC006 — Pronunciation and Conversation: Beyond ESL Basics
Hours: 18-25
Students practice clear pronunciation of American English at a beginning high or intermediate low level. Students gain confidence in communication skills to increase work opportunities and community involvement. Students increase comprehensibility to help with daily verbal interaction in the community and classroom. Language topics include intonation, rhythm, stress and letter sounds in English.

ESL NC007 — Pronunciation and Conversation: Intermediate ESL
Hours: 40-50
Students learn to recognize and produce clear pronunciation of standard American English for intermediate students. Instruction focuses on sound mechanics, correct verb tense endings, intonation, rhythm and stress. Students increase vocabulary and fluency to gain confidence in clear verbal interaction.

ESL NC008 — ESL Intermediate Low Grammar
Hours: 40-50
Intermediate low ESL students use an integrated skills approach that includes reading, writing, listening, and speaking in a variety of contexts to increase confidence when communicating in English. Students learn English grammar and usage and focus on grammatical concepts in spoken/written English. Topics include modals, irregular past tense verbs, tag questions, commands, count and non-count
nouns, and parts of speech. Students identify and use grammatical elements to compose and communicate using a variety of sentence styles, patterns and tenses.

**ESL NC009 — ESL Intermediate High Grammar**  
*Hours: 40-50*

Intermediate high ESL students use an integrated skills approach that includes reading, writing, listening, and speaking in a variety of contexts to increase confidence when communicating in English. Students learn English grammar and usage and grammatical concepts in spoken and written English. Topics include verb tenses, question formation, connectors, noun clauses, formal vs. informal, omission, reductions and phrasal verbs. Students identify and use grammatical elements to compose and communicate using a variety of sentence styles, patterns and tenses.

**ESL NC010 — ESL Advanced Grammar**  
*Hours: 40-50*

Advanced ESL students use an integrated skills approach that includes reading, writing, listening and speaking in a variety of contexts to increase communicative skills and confidence in English. Students learn English grammar and usage and focus on grammatical concepts in spoken and written English. Topics include perfect tenses, active and passive voice, prepositions, conditional and parts of a sentence. Students identify and use grammatical elements to compose and communicate using a variety of sentence styles, patterns and tenses.

**ESL NC011 — Political and Cultural History of the United States: ESL**  
*Hours: 27-30*

Intermediate ESL students learn the political and cultural history of the United States and its government. Topics include the history of the native people and the settlers, the political history of the founders of the United States and how the government was formed, and a review of the current political process as it functions in the United States.

**ESL NC013 — ESL Parent Involvement in K-12**  
*Hours: 20-30*

This course provides parents with knowledge and tools to navigate the public school system. Students design a home environment that supports learning for their children. Students learn to demonstrate the ability to express high expectations for their children’s achievements and develop skills to become involved in their children’s education at school and in the community.

**ESL NC014 — ESL Through Music**  
*Hours: 16-20*

Students use English language songs to learn new vocabulary and improve their speaking and listening skills in English. Explores idioms and customs expressed in the songs. Students learn to identify different musical genres and express opinions related to the cultural subjects within the songs.

**ESL NC015 — ESL Job Success: English to Get a Job**  
*Hours: 30*

This course helps high beginning ESL students look for and get a job. Students practice job searching, submitting online applications and interviewing skills. Students learn the English needed to explain what they can do, state what they want to do in the future, and navigate a job evaluation. Teaches English listening, speaking, reading and writing, in the context of real-life work-related situations.

**ESL NC016 — ESL Job Success: English to Succeed at a Job**  
*Hours: 30*

This course helps beginning high and intermediate low ESL students excel in their current employment situation. Topics include speaking with a manager to clarify tasks, asking for time off, explaining goals, and asking how to achieve employment goals within a current employment situation. Students learn cultural aspects and expectations of the workplace in the United States, including punctuality, dress code, customer service and computer skills.

**ESL NC017 — American Culture for ESL Students**  
*Hours: 18-26*

Students learn about American culture and values through teacher-directed discussion and activities, conversations using idioms, readings and writings, and participation in an analysis of American culture.
Students explore how famous American people, places and events influenced American values, beliefs, and attitudes and how they contributed to forming the American Dream. English is geared to beginning high and intermediate level ESL students.

**ESL NC018 — Intermediate ESL Vocabulary**  
*Hours: 20-25*

Students learn new vocabulary and usage for intermediate low and high English. Students are able to express themselves more effectively with landlords, receptionists, doctors, teachers and other community members. Some vocabulary topics include family, school, professions, food, home and clothing. Word decoding skills include synonyms, antonyms, homophones, prefixes and suffixes.

**ESL NC019 — Advanced ESL Vocabulary**  
*Hours: 18-26*

Students learn new vocabulary and usage for advanced ESL. Students are able to express themselves more effectively in workplace, business and academic settings. Vocabulary topics include office, legal issues, community service, gardening, hospitality, customer service and life events. Word decoding skills include synonyms, antonyms, Latin roots of words, homographs, eponyms for people and places, and the study of often confused and misused words.

**ESL NC020 — ESL Writing for Business**  
*Hours: 40-50*

ESL intermediate/advanced students practice proper sentence and paragraph structure for business writing. Students create a binder of business writing for reference or as examples for future employers. Topics include target audience, organization and outline, revision, and practice with e-mails, business letters, resumes, summaries and reports.

**ESL NC021 — Creative Writing for ESL Learners: The Craft of Self-Expression**  
*Hours: 26-30*

ESL intermediate high students learn to improve writing fluency through a variety of interactive writing exercises that address different elements of the craft. Through carefully designed English exercises, students practice different elements of style, such as rhythm, sound, sentence length and syntax, passive and active voice, and adjectives and adverbs. Topics include family, relationships, places, racism, values, life changes, parents and children, work, and language barriers for second language learners. Students develop interpretative skills by reading examples of American fiction.

**ESL NC022 — ESL Through Literature**  
*Hours: 32-40*

ESL intermediate and advanced level students read stories and poems to expand vocabulary, reinforce grammar, improve writing and knowledge of culture.

**ESL NC023 — ESL Idioms: Intermediate**  
*Hours: 18-25*

Speaking skills using American English idioms related to daily life. Students gain confidence in verbal interaction and cultural assimilation by understanding and utilizing idioms effectively. Topics include idioms related to food, sports, colors, animals, the human body and verbs.

**ESL NC024 — ESL Using Computer Programs**  
*Hours: 40-50*

Students learn English in the computer lab by logging into pre-loaded English learner software of their choice. Students progress step-by-step through level-appropriate software programs. Students learn to create passwords, navigate English learning programs, follow software prompts, while improving English fluency.

**ESL NC026 — ESL Student Success-Intensive**  
*Hours: 25-30*

Students learn to listen, speak, read and write in English at a beginning level to succeed in their academic and personal lives. Students increase awareness of resources and confidence to use English in the classroom and the community. Topics include goal setting, classroom communication, time management and organization, learning styles, test-taking skills, opportunities to practice English in the community and technology. Designed for students who have limited experience with the U.S. educational system.
ESL NC027 — Pathway to College Success for ESL Students  
*Hours: 80-100*

ESL advanced level students interested in transferring to credit campus practice strategies for succeeding at college. Topics include goal-setting, identifying obstacles to success, prioritizing assignments, creating, maintaining and utilizing a home study area and schedule, identifying and accessing on-campus assistance, developing a peer-support network, identifying and understanding the demands and rewards of college life, practicing test-taking strategies, and applying a cost/benefit analysis to attending college. Additionally, students increase reading, writing, speaking and listening skills in English.

ESL NC028 — Academic Skills for College Success for ESL Students  
*Hours: 80-100*

ESL advanced level students interested in transferring to credit campus practice reading, writing, speaking and listening skills in English at the level required to succeed in college. Topics include essay writing, identifying types of writing, scanning for information, public speaking, academic vocabulary and accessing college resources.

ESL NC037 — Bridge to College for ESL Students  
*Hours: 12*

ESL students interested in transferring to the credit campus learn how to apply to the college and select and register for classes. Students participate in a campus tour to learn about student support services on the credit campus, as well as strategies for time management and understanding credit class requirements.

ESL NC038 — English for Written Driving Test  
*Hours: 15*

Students learn to take the written driving test in English while acquiring the essential vocabulary needed to understand the questions and answers. Students follow the procedures for taking the test at the Department of Motor Vehicles (DMV), as well as learn the rules they must obey when driving in California.

ESL NC045 — ESL/Pre-GED English  
*Hours: 32*

ESL students interested in transferring to the AHS/GED program will practice academic and language skills necessary to succeed in the high school/GED programs. Topics include reading, academic writing, vocabulary building and learning strategies.

ESL NC050 — ESL/Pre-GED Mathematics  
*Hours: 32*

ESL students interested in transferring to the AHS/GED program gain knowledge of Pre-GED mathematical concepts necessary to succeed in the Adult High School/GED programs.

(ESL) Vocational—  
**Child Care Certificate**

ESLV NC30A— Vocational ESL Child Care, Module A  
*Hours: 60*

Module A of a two-part module course for the Vocational ESL Child Care Certificate prepares low level ESL students for a career in child care, with special emphasis on vocabulary and entry-level skill acquisition, as well as familiarity with common phrases for interacting with English-speaking customers. Topics include basic childcare vocabulary, communicating about child care, preventing incidents, reporting incidents, and treating illnesses and injuries.

ESLV NC30B — Vocational ESL Child Care, Module B  
*Hours: 60*

Module B of a two-part module course for the Vocational ESL Child Care Certificate prepares low level ESL students for a career in child care, with special emphasis on vocabulary and entry-level skill acquisition, as well as familiarity with common phrases for interacting with English-speaking customers. Module B topics include infant development, toddler development, preschooler development and school-age child development.
(ESL) Vocational—
Healthcare Certificate

ESLV NC33A — Vocational ESL Healthcare, Module A
Hours: 50

Module A of a two-part module course for the Vocational ESL Healthcare Certificate helps prepare intermediate to advanced level ESL students for success in healthcare certificate courses, such as Medical Assistant and Personal Care Attendant, with special emphasis on English skills needed to communicate in the healthcare field. Module A topics include health careers, the patient, basic duties, facilities, nutrition, communication, office skills, measurements and job readiness.

ESLV NC33B — Vocational ESL Healthcare, Module B
Hours: 50

Module B of a two-part module course for the Vocational ESL Healthcare Certificate helps prepare intermediate to advanced level ESL students for success in Healthcare Certificate courses, such as Medical Assistant and Personal Care Attendant. Special emphasis placed on the English skills needed to communicate in the healthcare field. Module B topics include communication, safety, medical emergencies, first aid, sanitation, anatomy, vision care, illness, medication and vital signs.

Parenting

ECE NC005 — Anger Management: Enhancing Healthy Family Values
Hours: 20-30

Teaches new approaches to dealing with anger using techniques that control reactions to family disagreements. Students learn how to improve parent-child and intimate relationships through effective communication skills as they confront wounds from the past, modify faulty belief systems, recover from addictive behaviors, and understand and manage emotions. Students learn to empower their lives, stop generational cycles of violence and receive support for recovering from substance abuse.

ECE NC010 — Child Development at the Parent-Child Workshop
Hours: 135

Within context of cooperative preschool, students learn about social, emotional, physical and cognitive development of young children; healthy separation patterns; importance of play; and strategies that support strong foundations for future learning. Students help create healthy, safe, inclusive environment, and observe and interact with children in preschool lab. Course includes lecture, lab, discussion and activities.

ECE NC011 — Parent Education in a Cooperative Preschool: Parent/Child Relationships
Hours: 127.5

Within context of cooperative preschool, students develop a framework for positive communication, child guidance and discipline, and navigating parenting

ESLV NC35B — Vocational ESL Landscaping and Gardening, Part II
Hours: 60

The Vocational ESL Landscaping Certificate prepares low-level ESL students for careers in landscaping, with special emphasis on vocabulary, entry-level skill acquisition, and familiarity with common phrases to interact with English-speaking customers. Part II topics include soils, pesticides, landscape design and successful job interviewing skills.

(ESL) Vocational—
Landscape Garden Certificate

ESLV NC35A — Vocational ESL Landscaping and Gardening, Part I
Hours: 60

The Vocational ESL Landscaping Certificate prepares low-level ESL students for careers in landscaping, with special emphasis on vocabulary, entry-level skill acquisition, and familiarity with common phrases to interact with English-speaking customers. Part I topics include plant identification, selection and care, irrigation, and safe use of hand and power tools.
challenges of the 21st century. Students discover community resources, learn about kindergarten readiness and develop strategies to support children’s education at home and school. Includes lecture, lab, discussion and activities.

**ECE NC012 — Parent Education in a Cooperative Preschool: Family Education and Resources**  
*Hours: 82.5*

Parents learn about nutrition, health, first aid, safety, community resources, kindergarten readiness and transition, and parenting strategies for ensuring their child’s success in school and community. Additional topics address parenting challenges such as influence of media and technology and helping children cope with family illness, death, separation and divorce. Designed for parents of children age 2 to 5 years. Class includes weekly lecture, lab/discussion seminar and activities.

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### Short-Term Vocational Classes and Certificates

#### Accounting

**ACCT NC001 — Setting up QuickBooks for Small Business**  
*Hours: 16*

Accounting fundamentals - Learn the basics of small business bookkeeping using QuickBooks, financial reporting, and analyzing and recording financial transactions. Discuss accounts receivable, accounts payable, payroll procedures, sales taxes and common banking activities.

**ACCT NC002 — Monthly Procedures Using QuickBooks**  
*Hours: 16*

Develop and apply monthly procedures used in accounting for small business. Continue to build small business accounting knowledge and gain practical experience working with day-to-day transactions. Reconcile balance sheet accounts and examine/audit income statement accounts on a monthly basis. Prepare adjusting journal entries and financial statements.

**ACCT NC003 — Year-End Procedures**  
*Hours: 16*

Develop and apply year-end procedures used in accounting for small business. Prepare closing journal entries for year-end and reports for tax accountant. Purge files and prepare for the new year.

#### Basic Internet Skills Certificate

**COMP NC040 — Searching the Web**  
*Hours: 10*

Defines the internet and teaches students how to search the Web and get the results they need. Students learn techniques and methods to narrow search results and troubleshoot difficult queries.

**COMP NC041 — E-mail for Beginners**  
*Hours: 10*

Provides a basic introduction to e-mail. Topics include how e-mail works and its uses, setting up an e-mail account, reading and sending e-mail, and dealing with attachments.

**COMP NC042 — Optimizing Photos for the Internet and E-mail**  
*Hours: 10*

Students learn to manipulate photos for efficient e-mailing or uploading to the internet. Using Adobe Photoshop or other graphic editing software, students crop, color-correct, apply text and effects, sharpen, resample, and save files in the appropriate formats for maximum quality and efficiency when e-mailing or posting to the internet. Develops photo editing and basic internet skills for business or personal use.

**GDP NC005 — Photoshop Overview**  
*Hours: 10*

Introductory course offers an overview of Photoshop tools and functionality to discover the creative potential of image editing. Students become familiar with the Photoshop window, tools and main menu bar. Covers opening and saving files, image compositing and collage, selections, layers and image correction.
Basic Mac Software Skills Certificate

COMP NC035 — Exploring Microsoft Office for the Mac
Hours: 20-25
Focuses on Microsoft Office for the Mac. Students learn the basics and how the Office programs are designed to work as a single application. Topics include MS Word (word processing), Excel (spreadsheet), PowerPoint (multimedia/graphics/slides) and Outlook (mail/calendar/contacts). Working professionals, small business owners and individuals interested in honing their software skills receive hands-on instruction as they make decisions about the software programs that meet their needs.

COMP NC036 — Introduction to the iPod and iTunes
Hours: 10
Teaches students how to use MP3 players and hand-held computers, focusing on iPods, iPod Touch and iPads. Students learn how to download music, videos and podcasts to a computer and organize, play and sync them to an iDevice. Topics include the applications available on iDevices, such as calendars, contacts and games.

COMP NC037 — Living the iLife
Hours: 25
Students learn how to use Apple’s iLife suite of programs—iPhoto, iMovie HD, iDVD, Garage Band and iWeb—to produce and distribute creative ideas through words, pictures, music or video.

Basic Office Software Skills Certificate

COMP NC050 — Word Processing Basics for Beginners
Hours: 12.5
Students who find computers mystifying or frightening learn how to navigate the computer screen and compose and edit a short document. Class pace allows students to become comfortable with the computer and editing techniques.

COMP NC051 — Introduction to MS Word
Hours: 9-10
An introduction to Microsoft Word functions for document creation including entering text, revising, formatting, previewing and printing. Students practice on a variety of documents.

COMP NC055 — Basic PowerPoint
Hours: 10
Teaches students to turn facts, figures and photos into a creative display of slides, outlines, graphs and multimedia using Microsoft PowerPoint. Students learn the basics of presentation design and how to use templates, insert graphics, add animation, rehearse timings, and run and share a presentation.

COMP NC058 — Basic Outlook
Hours: 10
Provides a basic hands-on introduction to MS Outlook, Microsoft’s premier e-mail and information management program. Students learn how to stay up-to-date at home or work by using Outlook to connect with colleagues, customers, family and friends. Topics include writing and searching e-mail, organizing work tasks and using the calendar to share information with others.

COMP NC062 — Basic Spreadsheets for Beginners
Hours: 12.5
Provides a slow-paced introduction to basic concepts and functions of Microsoft Excel. Topics include the basics of creating a spreadsheet, using formulas and functions and creating charts.

COMP NC063 — Introduction to MS Excel
Hours: 9-10
An introduction to basic concepts and characteristics of Microsoft Excel. Students explore various uses of spreadsheets. Topics include the basics of creating spreadsheets, using formulas and functions, creating charts and using the database feature in Microsoft Excel.
Beginning Computer Skills Certificate

COMP NC020 — How to Use a Computer Keyboard and Mouse for Beginners
*Hours: 10*

Gives students an orientation to the computer keyboard and mouse. Students learn the layout and function of special computer keys, learn how to properly hold the mouse and practice using mouse. No previous typing or computer experience required.

COMP NC021 — Learn to Type
*Hours: 9-12.5*

Teaches the correct finger and wrist placement and keyboard reaches for typing and texting. Students can brush up on keyboard skills, increase speed, and learn techniques and strategies to prevent carpal tunnel syndrome. Individualized instruction allows students to work at own pace. May be taught bilingually.

COMP NC022 — Computers for Beginners
*Hours: 9-12.5*

Designed for students with limited experience with computers. Students learn to perform basic computer tasks, including how to turn a computer on and off correctly, send and receive e-mail, navigate the internet, open and save a file and use computer terminology. Course may be taught bilingually.

COMP NC023 — Windows Basics
*Hours: 10-12.5*

A slow-paced introduction to the Windows Operating System. Students explore Help, windows navigation and management, file management, desktop customization, and other Windows Operating System tools and applications.

COMP NC024 — Introduction to Windows
*Hours: 9-10*


Beginning Mac Skills Certificate

COMP NC030 — Introduction to the Macintosh
*Hours: 15-20*

Designed for those with limited or no experience with computers. Students learn basic functions of the computer, how to set it up, and how to perform simple tasks like typing a letter, browsing the web and getting e-mail. Features an overview of the software that comes pre-installed on the Macintosh computer.

COMP NC031 — Introduction to Mac OS X Level 1
*Hours: 20*

Level 1 course covers the basics of Mac OS and some of its most popular programs. Students learn how to make, name, and rename files and folders. Students then find lost files, using Find and Spotlight. Examines the Sidebar and Dock and covers some of the most basic and useful programs that come with OS including Safari, Address Book and iCal.

COMP NC032 — Introduction to MAC OS X Level 2
*Hours: 20*

The Level 2 course reviews some of the programs examined in Level 1 in more detail, then proceeds with a more in-depth examination of Mac OS, including ways to customize the Mac. Students also examine more of the Mac OS programs as they integrate with Mail, iPhoto and iMovie. May be taught bilingually.

Blogging for Business Certificate

COMP NC080 — Setting Up a Blog
*Hours: 8*

Blogging is one of the most popular ways of communicating and spreading information and news. Students learn to create, manage and promote a blog. Students learn to define the blog’s goal, analyze the core audience, develop a sustainable plan for content creation, choose a platform and hosting option, design the blog and promote posts with social media.
COMP NC081 — Create Compelling Content
Hours: 8
Explore how to create content that is relevant, valuable and engaging to an audience by analyzing its needs, wants and likes, discovering questions asked and problems that can be solved. Find an authentic voice to create text, design and images that are of shared value to the core audience.

Computer
COMP NC001 — Typing/Keyboarding (Bilingual)
Hours: 20-24
This bilingual course promotes an understanding of basic typing and keyboarding skills. It is intended for students who have no keyboarding experience, or to improve keyboarding skills. Introduces proper keyboard-operating techniques through the practice and reinforcement of correct techniques to avoid experience repetitive stress syndrome, more commonly known as carpel tunnel syndrome.

COMP NC002 — Introduction to Computers (Bilingual)
Hours: 20
This bilingual course promotes an understanding of the basic computer skills. Provides basic knowledge of computers, such as hardware, software and basic terminology. Designed for beginners who desire to learn the navigation of the windows environment, manage files, keyboard layout and mouse techniques. Course completion satisfies requirement for certificate.

COMP NC003 — Introduction to Windows Operating Systems (Bilingual)
Hours: 20
A slow-paced introduction to the Windows Operating System. Recommended for people unfamiliar with computers and serves as a foundation for working with various Windows operating system versions. Students explore the Windows OS interface, practice simple windows navigation tools and techniques, implement file management, and examine other Windows Operating system tools, applications and help commands.

COMP NC004 — Introduction to the Internet and E-Mail (Bilingual)
Hours: 20
This introductory bilingual course provides the basic applications of the internet and electronic mail. Topics include browsing and researching on the World Wide Web using various search engines, popular websites, tips and techniques to obtain specific information. E-mail basics include web-based account setup, sending/receiving messages and attachments, e-mail etiquette, e-mail management, security and protection of privacy.

COMP NC005 — Microsoft Word Fundamentals (Bilingual)
Hours: 20
This bilingual course for beginners provides a basic understanding of Microsoft Word tools. Students learn to create professional quality letters, certificates, flyers, labels and more. Topics include formatting, paragraph alignment, indent, margins, clip art, bullets, columns, tables, graphics, and saving and printing documents.

COMP NC006 — Microsoft PowerPoint Fundamentals (Bilingual)
Hours: 25
This introductory bilingual course provides a basic understanding of Microsoft PowerPoint, a program that allows students to create effective presentations to convey a message through the use of words, graphics, shapes, color, sound and special effects. Students learn how to create, edit and format slides, create slideshows, save a presentation and print a presentation in handout format.

COMP NC007 — Microsoft Excel Fundamentals (Bilingual)
Hours: 20
This bilingual course for beginners provides a basic understanding of Microsoft Excel. Students learn to create functional and professional-looking spreadsheets. Topics include applying shortcuts, printing electronic spreadsheets and designing, creating, editing and storing documents. By completing this course, students increase workplace technology skills and employability.
COMP NC008 — Microsoft Publisher Fundamentals (Bilingual)
Hours: 25
This bilingual course teaches students fundamental skills on Microsoft Publisher, a popular desktop publishing program. Topics include editing, formatting and creation of flyers, calendars, invitations, greetings, business cards and business forms through the use of pre-designed or blank publications.

COMP NC009 — Fundamentals of Web Design (Bilingual)
Hours: 25
This bilingual course is designed to introduce students to basic web page creation techniques. Students acquire essential skills, methods and techniques related to basic web page design, using basic HTML and What You See Is What You Get (WYSIWYG) method of web creation. Overview of the tools, options, menus, palettes, file formats, system requirements, internet infrastructure and purchasing a domain are discussed.

COMP NC010 — Computer Skills Lab (Bilingual)
Hours: 9-200
The bilingual lab features individualized, hands-on instruction and small group lectures. Students learn at their own pace and design their own practice schedule in several computer software programs, including keyboarding, data entry, 10-key, Windows operating systems, MS Office (Word, Excel, Publisher, PowerPoint) and internet/e-mail.

GDP NC015 — Fundamentals of Graphics (Bilingual)
Hours: 25
This bilingual course introduces students to the basic operation of Adobe Photoshop, MS Publisher, Windows Movie Maker and Microsoft Paint. Through a series of projects students develop the skills to work efficiently in these programs by enhancing, collaging images, retouching photos and creating digital artwork. Overview of the tools, options, menus, palettes, file formats and system requirements are discussed.

MAT NC002 — Windows Movie Maker Fundamentals (Bilingual)
Hours: 25
This bilingual course promotes basic understanding of Windows Movie Maker as a multimedia application. Designed to assist beginning students in creating movies with pictures and videos. Overview of the tools, text editing functions, transitions, audio, effects, graphics insertion and title application are discussed.

MAT NC004 — Fundamentals of Photoshop (Bilingual)
Hours: 25
This bilingual course introduces the student to the basic operation of Adobe Photoshop. Through a series of projects, students develop the skills that are needed to work efficiently in Photoshop by enhancing, collaging images, retouching photos and creating digital artwork. Overview of the tools, options, menus, palettes, file formats and system requirements are discussed.

Computer Hardware Fundamentals Certificate

CNEE NC102 — Optimize and Upgrade Your PC
Hours: 25
Students learn hardware and software tools and strategies to improve the productivity and increase the efficiency of PC systems. Teaches how to optimize the PC’s operation and how to upgrade memory, disk drives and other components at a reasonable cost to extend the life of a PC system, or design and build an entirely new system. Topics also include how to rid a system of viruses and spyware and how to back up a system and valuable data.

CNEE NC103 — Keeping a PC Hard Disk Clean and Organized
Hours: 10
Students learn to organize, clean and optimize a PC hard disk drive to maximize performance. Topics include techniques for file organization, program removal, garbage identification and the removal of malware and basic maintenance.
COMP NC070 — Introduction to Handheld Devices  
*Hours: 10*
Teaches students the practical use of a variety of handheld computer devices, including music players, e-Books, Smartphones, iPods, iTouch and iPads. Students learn to use common PC and Mac applications to run devices and how to find tutorials or manuals, useful settings and interesting add-ons for handheld devices. Information learned provides tips on how to use handheld devices effectively and observe protocol in decisions to use these devices in a work environment.

COMP NC071 — Tech Talk: What’s New in Computers and Technology  
*Hours: 25*
Examines the rapidly evolving technical world and its future. Students explore the many practical questions that arise as computers, cell phones, eBooks, social networks, e-mail, the internet and other technology become more central to our daily lives. May be taught bilingually.

Construction Technology  
CT NC001 — Construction Framing  
*Hours: 12*
A beginning course in residential construction framing (housebuilding). Take as a stand-alone course or as part of a four-course series of construction classes. (A good transition course to the credit Construction Technology program at SBCC.) Topics include the framing of floors, walls, ceilings, and roofs and jobsite safety. Hands-on practice uses the typical tools of the trade: Framing hammer, tape measure, chalk-line, speed-square, skilsaw, sawzall, nail gun, etc. This course is intended to give an overview of the house building process and practice in basic tool use.

CT NC002 — Construction Finish Carpentry  
*Hours: 12*
A beginning course in residential construction finish carpentry (housebuilding). Take as a stand-alone course or as part of a four-course series of construction classes. (A good transition course to the credit Construction Technology program at SBCC.) Topics include introduction to hand tool and power tool use, scope of residential finish work, demonstration and practice of finish work (base, case, crown, closets, doors and floors). Hands-on practice uses the typical tools of the trade. This course is intended to give an overview of residential finish work and practice in basic tool use.

CT NC003 — Construction Electrical  
*Hours: 12*
A beginning course in residential construction electrical work. Take as a stand-alone course or as part of a four-course series of construction classes. (A good transition course to the credit Construction Technology program at SBCC.) Topics include introduction to home electrical systems, electrical and job site safety, tool use and materials identification. Hands-on practice uses the typical tools of the trade. This course is intended to give an overview of the house electrical systems and practice in basic tool use.

CT NC004 — Construction Plumbing  
*Hours: 12*
A beginning course in residential construction plumbing. Take as a stand-alone course or as part of a four-course series of construction classes. (A good transition course to the credit Construction Technology program at SBCC.) Topics include introduction to home plumbing systems and materials, working with piping, installing fixtures and trouble shooting. Hands-on practice uses the typical tools of the trade. This course is intended to give an overview of the house plumbing systems and practice in basic tool use.

Digital Design Basics Certificate  
GDP NC001 — Digital Design Techniques  
*Hours: 25*
Students learn how to create flyers, brochures, logos and more using Illustrator, Photoshop and InDesign programs from the Adobe CS suite. Examines how the programs work together to seamlessly combine photos, graphics and page layouts to produce high-quality products. Students complete class assignments to practice and demonstrate the skills required to design and complete a professional project. May be taught bilingually.
GDP NC010 — Introduction to Adobe Illustrator  
*Hours: 25*  
Introduction to the basics of Adobe Illustrator, a powerful graphic design and illustration program and an essential tool for any design project. Students learn how to create illustrations, logos and more, using Illustrator from the Adobe CS suite. Students complete class assignments to practice and demonstrate the skills required to design and complete a professional project.

MAT NC001 — Introduction to Dreamweaver  
*Hours: 25*  
Students learn to create a professional website using HTML and CSS cascading style sheets. Basic knowledge of PC or Mac and internet navigation skills recommended.

MAT NC003 — Photoshop  
*Hours: 25*  
Students learn Photoshop for the PC and Mac, the premiere visual editing software package that enables combination of images, retouching photos, and the creation of digital artwork. Presents a solid foundation in basic tools and techniques for creating, enhancing and collaging images. Students practice new skills in a lab setting and master the fundamentals of digital imaging. May be taught bilingually.

PHOT NC001 — Digital Cameras, Digital Photos  
*Hours: 10*  
Students learn the basics of photography, the features of digital cameras, how to take better digital photos, and how to correct common photo problems, using photo editing software. Designed for beginners or students with some experience in digital photography. Students should bring cameras and sample pictures to class.

PHOT NC002 — Photoshop for Digital Photographers  
*Hours: 25*  
Focuses on the capabilities of Photoshop for the PC and Mac, including advanced layering, composition and retouching techniques. Students learn shortcuts to increase productivity and engage in repeated practice in a lab setting to reinforce concepts presented through lecture and demonstration. Familiarity with Photoshop on the PC or Macintosh recommended. May be taught bilingually.

Finance, International Business and Marketing  

IBUS NC001 — Domestic and Global Issues in Employment Law  
*Hours: 8*  
Contemporary issues in U.S. and global employment law are examined and discussed. The focus covers regulations and legal issues faced in the workplace including sexual harassment and discrimination claims, whistle-blowing, immigration, legal procedures for filing EEO claims, alternatives to litigation along with employer defense options.

IBUS NC002 — Interviewing and Hiring in the Global Marketplace  
*Hours: 8*  
Global marketplace techniques and trends in recruitment, investigation, interviewing, and hiring in physical and digital space. Students learn tools for effective hiring supervision.

IBUS NC003 — Evaluating and Monitoring Performance of Your Global Team  
*Hours: 8*  
Global organizations measure success by having great relationships with employees. This course is designed to measure which employees understand, communicate and respond to the legal and ethical organizational values and performance standards.

MKT NC001 — Promotional Marketing Tools  
*Hours: 10*  
Marketing effectiveness includes the creation and maintenance of product (tangible and intangible) brand awareness for organizational profitability. Promotional strategy includes using major marketing tools such as public relations, advertising, relationship selling and social media. A successful marketing campaign is correctly timed and mixed and translates to increased sales and customer loyalty in profit and non-profit sectors. Learn to use marketing communication as a growth and customer retention tool, and to cement relationships to gain the lifetime value of every customer.
MKT NC002 — Business Branding
Hours: 10
Learning to identify and implement a branding strategy in a sharable and saleable global marketplace requires responding to existing needs and wants of customers. Social media use in building a brand with “trust” credits critical business relationships. Digital data once gathered on current websites such as LinkedIn, Twitter and Facebook to create mutual understanding between the seller and the buyer in the relationship process from product creation to profit-taking.

MKT NC003 — Marketing Maps
Hours: 10
Business success begins with responding to target markets by positioning them in the minds of customers via knowledge of their demographics, psychographics and geographic information. Marketing messages that respond to targeted customer demand occur via creation of both consistent and effective marketing messages. All messages require perceptual knowledge of targeted customers. Target marketing positioning strategies deliver the right mix of people and the relevant benefits and features offered by businesses.

MKT NC004 — Mobile Marketing
Hours: 10
Mobile marketing encompasses global exchange activities on devices such as smartphones, tablets and various others. Businesses today look for customer based profitability and investment solutions using mobile devices that also offer customers instant feedback and satisfaction. These devices attract, engage, acquire and retain local and international customers. Mobile communication offers solutions via gathering data, insights, and content in the marketplace in real time.

MKT NC005 — Creating Effective Communication in Promotional Marketing
Hours: 10
Focuses on the promotional aspect of marketing and the different communication techniques used to raise customer awareness and interest. Students learn how to identify the mediums that are most effective to a targeted market. Both business-to-business and business-to-business strategies are covered. These techniques help students succeed in various careers such as sales, public relations, copywriting and other marketing positions.

MKT NC006 — Managing a Marketing Campaign Project
Hours: 16
Focuses on the research, planning, execution and evaluation of a marketing campaign. It examines the specific activities used to promote products, services and businesses. Multiple online and offline mediums that carry the message of the marketing campaign are covered. Explores how companies use marketing campaigns to reinforce branding and positioning.

MKT NC007 — Self-Management and Development
Hours: 16
Focuses on self-management skills that encourage behavior resulting in the achievement of personal and professional goals. These can include activities that improve awareness and identity, develop talents and potential, build human capital, and facilitate employability, enhance quality of life and contribute to the realization of dreams and aspirations.

Graphic Design

GDP NC021 — Learn Adobe Acrobat Tools. Optimize Your C3! Create, Communicate and Collaborate
Hours: 8
Downloaded from the web and shared as e-mails: What are PDFs and how can they make our lives easier? The Adobe Acrobat Portable Document Format has become increasingly popular in our world as a means of sharing information, becoming so ubiquitous that often people use PDFs without really understanding what they are and how they work. Demonstrates the basics of working with PDFs: How to create, combine, edit, export, review, annotate, comment and share documents.
GDP NC022 — Apply Adobe Acrobat Tools: Optimize Your C3! Create, Collect, and Communicate  
**Hours: 8**

Overwhelmed by the endless stream of documents and papers you encounter and need to filter through each day? Trying to communicate and share information from a variety of applications effectively? Or would you like to gather information simply and efficiently? Streamline your workflow and eliminate paper as you gain additional skill with Adobe Acrobat Professional. Demonstrates the use of PDFs to convert existing paper documents into digital archives, combine documents from various applications into one cohesive file or portfolio, add interactivity to manuals and newsletters, and create forms or convert existing forms into digital interactive forms for easy data collection.

GDP NC031 — Information Design for Print  
**Hours: 8**

As technology enables the collection of an increasing and greater amount of data, today’s designer is challenged to help make insights possible through the graphical presentation of this information. Serves as an introduction to the foundation of information design and the creation of static visualizations for print distribution. Students learn to tell stories visually with data through the understanding of data types, graphic design principles and current software tools.

GDP NC032 — Interactive Information Design for Screen  
**Hours: 8**

Explores the power and potential of coding for creating interactive designs. Beginning with a strong foundation in basic coding structures, students quickly see visual results as they read, map and illustrate information. The introduction of interactivity allows students to create additional dimensions and layers of meaning by providing users methods to investigate and interact with data in new and novel ways.

GDP NC041 — Producing a Digital Newsletter  
**Skills Advisories:** Some skills using a computer and some experience working on a page layout program (Word, InDesign, Pages, Pagemaker or Quark) would be helpful to accomplish the most out of the class.  
**Course Advisories:** Homework will be assigned  
**Hours: 8**

Focuses on formatting a newsletter for print and digital platforms. Students are given guidance while laying out an actual publication of their own choosing or are given a prototype to produce from a company or organization. Adobe InDesign is used to produce a basic newsletter format, work with images and text plus preflight packages for print or fixed digital platforms. The final project is used in a portfolio or as the basis to produce the real thing.

GDP NC042 — Producing a Digital Magazine  
**Skills Advisories:** Some skills using a computer and some experience working on a page layout program (Word, InDesign, Pages, Pagemaker or Quark) would be helpful to accomplish the most out of the class  
**Course Advisories:** Homework will be assigned  
**Hours: 8**

Focuses on practicing basic techniques used to produce digital magazines and covers. Students are given guidance while they format a publication prototype. They may choose to lay out their own magazine or are given a model from a company or organization to work on. Participants work with images and text plus proof and produce preflight packages to upload the magazine for print and fixed digital platforms.

GDP NC051 — Save a Tree, Go Paperless  
**Corequisites:** GDP NC052 (to earn the badge for Green Documents, Documents for the Environment)  
**Skills Advisories:** Basic computer skills and word processing software  
**Limitation on Enrollment:** Limited to number of work stations with the appropriate software in the classroom provided  
**Hours: 8**

Students learn how to create secure forms and interactive documents for electronic distribution using Adobe Acrobat Professional. Includes securing forms (passwords, view/print privileges and digital signatures). Topics include strategies for good form design utilizing industry

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standard software (Word, Google Docs, InDesign and Illustrator); conversion to secure PDF forms; and creation of interactive field types such as text fields, list boxes, radio buttons, navigation, embedded hyperlinks and calculations. Students also learn about additional security options and how to plan for distribution.

GDP NC052 — Size Matters! Preparing Digital Images for Print, Web and Digital Documents
Corequisite: NC 051 (to earn the badge for Green Documents, Documents for the Environment)
Skills Advisories: Basic computer skills
Limitation on Enrollment: Limited to number of work stations with the appropriate software in the classroom provided
Hours: 8

Think one size fits all when it comes to using images in your documents? Then think again. Learn about pixels, the building blocks for digital images, and how they relate to image size (ppi or resolution). Understand how the “intent” (print, web and digital documents) determines the size and resolution (resize vs resampling). Learn how to use Photoshop to perform basic photo editing such as cropping, straightening, basic retouching and saving to the appropriate file format for the intended use (all file formats are NOT the same). Additionally, learn how to manage and archive digital libraries.

Green Gardener Certificate
EH NC001 — Green Gardener: Module 1
Hours: 22.5

Be on the cutting edge of Green Landscaping. Designed for gardeners, landscapers, homeowners, property owners and managers. Receive the training necessary to offer environmentally responsible, resource efficient and pollution prevention landscape maintenance services. Expert guest lecturers cover irrigation efficiency, green waste reduction, pest and fertilizer management, proper plant maintenance and other sustainable landscaping topics. After completing the course and assignments, participants are promoted as Green Gardeners and benefit from advertising and discounts by the program sponsors. For more information on the Green Gardener Program, www.greengardener.org. The 15-week program of two modules includes classroom, demonstration and take-home field-work.

EH NC002 — Green Gardener: Module 2
Hours: 15
Builds on the Green Gardener: Module 1 course, providing the landscape professional additional training in resource conservation, pollution prevention and sustainability.

EH NC104 — Advanced Green Gardener
Hours: 5
Recommended to be taken after completion of Green Gardener Course Modules 1 and 2, as it builds on same topics with greater detail and including a lab component with hands-on experience in sustainable landscape care.

Library
LIBR NC001 — Online Research Skills
Recommended Abilities: Basic computer knowledge
Hours: 8

Need help finding quality information on the Internet without wasting time? This course teaches advanced internet search skills to yield relevant, credible sources. Guided by a college librarian, students locate, evaluate, and organize information sources to create a research pathfinder that informs others and demonstrate their research expertise.

LIBR NC002 — Presenting Research with Infographics
Recommended Abilities: Basic computer knowledge
Hours: 8

Need to present information in a concise memorable, cutting-edge format? This course teaches data visualization to communicate information clearly and efficiently. Guided by a college librarian, students locate, evaluate and organize information to create infographics that inform others and demonstrate their research experience.

Medical Assistant Training Certificate
AH NC005 — Medical Assistant IA: Administrative and Clinical Skills Part One
Recommended: English 70
Hours: 88
First of a two-part course that prepares students for entry-level medical assisting. The Administrative (front office) component includes HIPAA and other legal regulations, medical records, patient reception and appointment scheduling. Clinical (back office) instruction includes infection control, vital signs, diagnostic tests, assisting with primary/family and specialties (surgery, OB/GYN and pediatrics).

AH NC006 — Medical Assistant IB:
Administrative and Clinical Skills Part Two
Prerequisite: AH NC005 with a minimum grade of “P”
Hours: 39

Second of a two-part course that prepares students to work as entry-level medical assistants. The Administrative (front office) component includes HIPAA and other legal regulations, medical records, patient reception and appointment scheduling. Clinical (back office) instruction includes infection control, vital signs, diagnostic tests and assisting with primary/family and specialties (surgery, OB/GYN and pediatrics).

AH NC007 — Medical Assistant II:
Job Readiness and Field Work
Prerequisite: AH NC006 with a minimum grade of “P”
Hours: 160

Provides job readiness skills and hands-on experience as medical assistants in local medical clinics and offices. Under supervision, students perform administrative and clinical procedures within the medical assistant scope of practice, preparing them for future employment.

Multimedia Arts and Technologies
MAT NC005 — Photoshop for Web Design
Hours: 16

Provides students with basic tools and techniques in Photoshop that lie behind great images and graphics in web design. These include the fundamental concepts and techniques for working with type in Photoshop. Learn to create UI elements, web graphics, wireframes, and functional mockups that transition beautifully and easily to production with Photoshop, while learning how to incorporate principles of design such as contrast, unity and balance in specific ways that improve your website.

MAT NC006 — Web Coding Fundamentals
Hours: 16

Learn how to write HTML, the programming language that powers the web. Gain an understanding of HTML5, and how to use HTML5 structural tags and semantic markup. Learn how to turn a design created in Photoshop into a fully functioning website in Dreamweaver. Combine tools in Dreamweaver with CSS to create compelling, easy-to-update web pages. Learn how to use jQuery to add web form usability, audio and video, animation and other features like slideshow galleries to your HTML and CSS web pages.

MAT NC007 — Responsive Web Design
Hours: 16

Discover how to structure your website content to create a user experience that embodies utility, ease of use and efficiency. Learn how to design your website to be more readable and efficient on multiple devices using responsive website techniques. Learn how to use Dreamweaver’s Fluid Grid Layout framework and media queries to create a responsive website design. Learn how to collaborate more effectively and efficiently with clients and colleagues.

MAT NC008 — Introduction to Photoshop
Hours: 8

Students work with Photoshop basic techniques to edit photographs and create digital imagery. Topics include editing techniques, working with layers, blending modes, Smart Objects, cropping and straightening, color and tone adjustments, noise reduction and detail recovery. Students also learn how to apply filters, layer effects and how to create illustrative type for creative effects.

MAT NC009 — Introduction to Adobe Illustrator
Hours: 8

Students work with Illustrator basic techniques to create and edit vector imagery. Topics include working with paths, layers, shapes and type; creating color libraries; using live effects; and manipulating objects. Students also learn how to set document parameters, convert bitmap images to vector and how to create illustrative type.
MAT NC010 — Adobe Lightroom Essentials
Hours: 8
Students learn the basics of the Lightroom software, learning to both manage libraries of files, and to increase the quality of their photos and videos using editing techniques. The first component of the course focuses on the library module of the program, with an emphasis on importing and organizing photos, surveying images and using the interface. The second component of the course introduces the develop module, which allows students to edit files both individually and in groups.

Personal Care Attendant Training Certificate

AH NC020 — Personal Care Attendant I: Basic Care
Skills Advisories: Level 5 Continuing Education ESL or SBCC Credit Division English Basic Skills.
Hours: 42
Introduces students to entry-level Personal Care Attendant skills. Students are taught how to assist patients and family with non-medically directed personal care and home management activities. It prepares students to seek entry-level Personal Care Attendant employment. Topics include understanding and working with older patients, caregiver skills, home safety, physical movement, communication, nutrition, medication guidelines, skin care and cleanliness, elder and dependent adult abuse and caring for the caregiver.

AH NC021 — Personal Care Attendant II:
Dementia and End of Life Care
Skills Advisories: Personal Care Attendant I: Basic Care
Hours: 21
Focuses on dementia and end-of-life care. Students are given in-depth information on types and causes of dementia and principles of end-of-life care. Topics include potential causes and successful strategies to deal with communication difficulties and problem behaviors, as well as activities that lead to successful caregiving. End-of-life topics include advanced planning, practical and emotional issues related to death and dying, and community resources for the support of families and caregivers.

Professional Development Studies

PRO NC002 — Business Writing in a Technological World
Hours: 8
Students develop effective and professional business writing skills using business tone, organization and formatting, word choice and persuasion. Matching the delivery channel (e-mail, letter, memo or text) to the message type and situation will be covered, as well as the best methods to deliver bad news.

PRO NC003 — Time Management
Hours: 8
Participants explore time management strategies and tools for effectively managing expanding workloads, shifting priorities and increasing demands. Practice prioritizing “important” versus “urgent” activities. Emphasis on analyzing current use of time; identifying organizational goals, roles and priorities; discovering gaps to achieving goals; and applying time management tools to the gaps for completing important priorities first.

PRO NC004 — Communication Strategies for the Workplace
Hours: 8
Participants assess and optimize current workplace communication skills. Differentiate content, emotions, perceptions and intentions in a communication exchange. Build an advanced communication tool kit to forward your career. Illustrate clear and congruent verbal and nonverbal messages tailored to the personalities involved, the desired outcomes and the context.

PRO NC005 — Critical Thinking, Problem Solving and Decision Making
Hours: 8
Develop analytical thinking, decision making and problem solving techniques. Apply judgement and insight to break problems into component parts and apply deductive reasoning.
PRO NC015 — Building High Performance Teams  
Hours: 8  
Participants explore and apply key team building skills for working within a team or leading one, and learn to influence a high-performing team. Emphasis on stages of team development, team roles, supportive communication climate, meeting strategies and tools for first rate problem solving and decision making. Practical application within a team structure is emphasized.

PRO NC017 — Change is the New Constant  
Hours: 8  
Develop and apply change management techniques based on contemporary change models and change lifecycle stages and utilizing change management communication skills.

PRO NC019 — Difficult Relationships  
Hours: 8  
Exploration of participants’ own behaviors and personality styles, while learning to adapt one’s behavior to be effective with other personality styles in a variety of work situations. Emphasis is placed on dealing with difficult relationships and communicating in a way that matches the needs of all involved to achieve relationship satisfaction and organizational objectives.

PRO NC021 — Coaching Skills  
Hours: 8  
Apply behavioral change models and coaching techniques to close the gap between actual and desired employee performance and motivation.

PRO NC032 — Difficult Conversations  
Hours: 8  
Develop techniques for difficult conversations based on intentions, optimal outcome and assumptions. Craft and deliver scripts customized to the scenario and personality styles involved.

PRO NC033 — Successfully Managing and Developing People  
Hours: 16  
Learn and apply the communication, delegation and motivational skills needed to be an effective manager or supervisory.

PRO NC036 — The Art of Negotiating and Collaborating  
Hours: 8  
Participants apply collaboration tools for building high-trust synergistic relationships. Analyze the conflict cycle and practice skills to diffuse conflict at each stage for mutual benefit. Assess one’s strengths and utilize tools to facilitate and adapt to others’ styles. Skills include re-framing, neutralizing language, discovering of interests, and leveraging innovative solutions through a collaborative negotiation process.

PRO NC050 — Best Practice in Customer Service  
Hours: 8  
Apply practical strategies to retain a valuable customer base, diffuse difficult situations and earn repeat business. Topics include the anatomy of a complaint, regulating verbal and nonverbal responses, active listening skills, creative problem solving, customer perceptions and expectations, adapting to different conflict styles and steps to defuse angry customers.

PRO NC056 — Closing Techniques to Win the Sale  
Hours: 8  
In any selling situation obstacles have to be overcome before a buying decision is reached. Learn to resolve objection effectively through a process that involves careful listening along with positive factual responses to buyer concerns. Learn techniques to address customers’ emotional needs, get past the obstacles preventing them from buying and build long-term customer relationships.

PRO NC057 — Winning Sales Scripts  
Hours: 8  
Identify the key roles in the sales process and develop a script-based sales strategy. Write and deliver face-to-face, voicemail and e-mail sales messages to open and close sales transactions.
PRO NC067 — Hi Impact Presentations and Proposals for the Workplace  
Hours: 8  
Explore and apply advanced presentation formatting, persuasion and delivery techniques needed in today’s workforce. Practice tools to pitch your ideas, sell yourself in an interview and structure presentations for clarity, brevity and impact. Influence others using verbal and nonverbal strategies. Emphasis on situational and audience analysis, persuasion, structure and delivery in workplace situations.

Restorative Nurse Assistant Certificate

AH NC030 — Restorative Nurse Aide Training - Basic Skills  
Course Advisories: Must have current active CNA license, TB clearance and health care provider CPR.  
Hours: 40  
Prepares licensed CNAs (Certified Nurse Assistants) to assist patients/residents in maintaining or promoting independence in the areas of mobility, range of motion, and in the performance of activities of daily living. This course is the first in a two-part series leading to an SBCC Noncredit Educational Programs Certificate of Completion for Restorative Nurse Aides.

AH NC031 — Restorative Nurse Aide Training - Advanced Skills  
Prerequisites: AH NC030  
Hours: 14  
Advanced course for licensed CNAs reviewing the aging process on the five senses, restorative techniques for the therapeutic use of heat and cold, positioning and exercise and management for cognitive deficit.

ServSafe Food Safety Preparation Certificate

CA NC013 — ServSafe Food Safety Preparation Certificate: Module A  
Hours: 11-30  
Module A of a two-part course of study designed to provide students with information for all levels of employees on all aspects of handling food, from receiving and storing to preparing and serving. The emphasis is to enhance safety and hygiene in the food industry.

CA NC014 — ServSafe Food Safety Preparation Certificate: Module B  
Hours: 11-30  
Module B of a two-part course of study designed to provide students with information for all levels of employees on all aspects of handling food, from receiving and storing to preparing and serving. The emphasis is to enhance safety and hygiene in the food industry. Upon completion of Modules A and B, students are prepared to take the ServSafe Food Handler Examination.
Santa Barbara City College
2016-2017

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*EMERITUS STANDING
Faculty Lectures

This is a series of annual lectures, wherein a distinguished Santa Barbara City College faculty member is chosen by colleagues to deliver an address on a scholarly subject of general interest. The criteria for selection:

- Outstanding classroom teaching, counseling or librarianship
- Unselfish, dedicated faculty service to Santa Barbara City College

Previous Faculty Lecture Honorees

Dr. Robert Casier, 1979-1980
Mr. Henry H. Bagish, 1980-1981
Dr. Charles R. Courtney, 1981-1982
Dr. Harold M. Dunn, 1982-1983
Dr. John D. Kay, 1983-1984
Mr. Raymond F. O'Connor, 1984-1985
Dr. Barbara S. Lindemann, 1985-1986
Dr. Elwood J. Schapansky, 1986-1987
Dr. George E. Frakes, 1987-1988
Dr. Elizabeth Hodes, 1988-1989
Dr. Jack R. Ullom, 1989-1990
Dr. Curtis B. Solberg, 1990-1991
Dr. Robert J. Cummings, 1992-1993
Mr. John C. Egger, 1993-1994
Mr. Michel Masson, 1994-1995
Dr. Gary Carroll, 1995-1996
Mr. David N. Lawyer, Jr., 1996-1997
Mr. Joseph P. White, 1997-1998

Dr. Manoutchehr M. Eskandari-Qajar, 1998-1999
Dr. Jeannette Webber, 1999-2000
Dr. Peter O. Haslund, 2000-2001
Ms. Genevieve B. Anderson, 2001-2002
Dr. John Clark, 2006-2007
Mr. Don Barthelmess, 2007-2008
Mr. Robert S. Gray, 2009-2010
Mr. Michael Young, 2010-2011
Ms. Kathleen Z. Molloy, 2012-2013
Mr. Blakely R. Barron, 2013-2014
Dr. Sonia M. Zúñiga-Lomelí, 2014-2015
Dr. Kelly O. Lake, 2015-2016
Ms. Pamela A. Guenther, 2016-2017
Santa Barbara City College
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