

Certificate of Achievement Requirements

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 Requirements

(Total Department Units: 29.5-31.5)

<i>Current Course No.</i>	<i>Previous Course No.</i>	<i>Title</i>	<i>Units</i>	<i>Institution & Course No.</i>	<i>Grade</i>	<i>Units (s/q)</i>	<i>Term</i>
• CS 101	(COMSC 101/1)	Computer Concepts.....	4.0	_____	_____	_____	_____
• CS 105	(135/COMSC 135/35).....	Theory and Practice I.....	3.0	_____	_____	_____	_____
• CS 130	(COMSC 130)	Introduction to the Linux Operating System.....	2.5	_____	_____	_____	_____
• CS 137	(COMSC 137/37)	"C" Programming OR	3.0	_____	_____	_____	_____
• CS 140	(COMSC 140)	Object-Oriented Programming Using C++	4.0	_____	_____	_____	_____
• MATH 107	(11).....	Intermediate Algebra.....	4.0	_____	_____	_____	_____
• PHIL 205	(5).....	Introduction to Logic	3.0	_____	_____	_____	_____
• PHYS 102.....	(2).....	Introduction to Physics for Science Majors	4.0	_____	_____	_____	_____
<i>Plus two courses from the following:</i>							
• CS 106	(145J/COMSC 145J/145/45) ...	Theory and Practice II.....	3.0	_____	_____	_____	_____
• CS 107	(131/COMSC 131/31).....	Computer Architecture and Organization	3.0	_____	_____	_____	_____
• CS 111	(COMSC 111)	HTML and Webmastering	3.0	_____	_____	_____	_____
• CS 137	(COMSC 137/37)	"C" Programming.....	3.0	_____	_____	_____	_____
• CS 140	(COMSC 140)	Object-Oriented Programming Using C++	4.0	_____	_____	_____	_____

Note: A course may not be used to satisfy more than one requirement (double counting is not allowed).

Additional Program Information

For further information, contact the Counseling Center, 965-0581, Ext. 2285, or Dean Nevins, Department Chair, 965-0581, Ext. 2791.

Associate Degrees and Certificates of Achievement (In alphabetical order) - For a complete list of programs of study (associate degrees, certificates, skills competency awards and department awards) and requirements, go to http://www.sbcc.edu/apply/degrees_certificates.php.

Accounting (AS)	Health Information Technology (AS)
Accounting/Assistant Bookkeeper IV (C)	Healthy Aging (AA)
Administration of Justice (AA/AS/C)-3 emph. avail (AS&C), 1(AA)	History (AA)
Administration of Justice for Transfer (AS-T)	History for Transfer (AA-T)
Alcohol and Drug Counseling (AA/C)	Honors (C/C with highest honors) – 2 emphases available
American Sign Language (AA)	Hospitality (AS/C)
Animation and Gaming (AA/C)	Infant/Toddler Development (C)
Anthropology (AA)	Interior Design (AA/C)
Anthropology for Transfer (AA-T)	International Business (AA/C)
Applied Photography (AA/C)	Introduction to Graphic Design (C)
Art (AA) - 2 emphases available	Journalism (AA/C)
Art History for Transfer (AA-T)	Journalism for Transfer (AA-T)
Associate Child Care Teacher (C)	Kinesiology for Transfer (AA-T)
Automotive Services & Technology (AS/C)	Law & Society (AA) - Emphasis in Criminal Justice available
Biological Sciences (AA)	Liberal Arts (AA) – Emphasis in Biomedical Sciences
Black Studies (AA)	Liberal Arts & Sciences (AA) – 3 emphases available
Business Administration (AA/C) – 3 emphases available for AA, 2 for C	Liberal Studies (AA) – Emphasis in Education
Business Administration for Transfer (AS-T)	Marine Diving Technician (AS/C)
Cancer Information Management (AS/C)	Marketing (AA/C)
Chemistry (AA)	Mathematics (AA)
Chicano Studies (AA)	Mathematics for Transfer (AS-T)
Commercial Music (C)	Media Arts (AA/C)
Communication (AA) - 2 emphases available	Medical Coding Specialist (C)
Communication Studies for Transfer (AA-T)	Middle East Studies (AA)
Computer App. & Office Mgmt (AS/C) - 2 emphases available	Music (AA)
Computer Information Systems (AS) – Emph. in System Admin. available	Native American Studies (AA)
Computer Network Engineering (AS/C)	Natural History (AA)
Computer Science (AS/C)	Nursing - ADN (AS)
Construction Technology (AS/C)	PC Support/Network Management (C)
Cosmetology (AS/C)	Philosophy (AA)
Creative Writing (C) – 2 emphases available	Philosophy for Transfer (AA-T)
Culinary Arts (AS/C)	Physical Education (AA) – Emphasis in Athletic/Personal Fitness avail.
Database Programming and Applications Development (C)	Physics (AA/AS)
Diagnostic Medical Sonography (C)	Physics for Transfer (AS-T)
Diversity Issues in ECE (C)	Political Science (AA)
Drafting/CAD (AS/C)	Political Science for Transfer (AA-T)
Early Childhood Education (AS/C)	Post-Professional Practice in ADC (C)
Early Childhood Education for Transfer (AS-T)	Psychology (AA)
Economics (AA)	Psychology for Transfer (AA-T)
Economics for Transfer (AA-T)	Radiography (AS)
Elementary Teacher Education (AA-T)	Real Estate (AS/C)
Engineering (AA/AS)	School-Age Care (C)
English (AA)	Sociology (AA)
English for Transfer (AA-T)	Sociology for Transfer (AA-T)
Environmental Horticulture (AS/C) - 4 emphases available for AS, 1 for C	Spanish (AA)
Environmental Studies (AA)	Spanish for Transfer (AS-T)
Ethnic Studies (AA)	Studio Arts for Transfer (AA-T)
Film Production (AA)	Theatre Arts (AA) - 3 emphases available
Film and Media Studies (AA)	Theatre Arts for Transfer (AA-T)
Finance (AA/C)	Transfer – CSU General Education Breadth Pattern (C)
French (AA)	Transfer – IGETC (C)
Geography (AA)	Vocational Nursing (AS/C)
Geography for Transfer (AA-T)	Wastewater Technology Education (C)
Geological Sciences (AS)	Water Technology Education (C)
Geology for Transfer (AS-T)	
Global Studies (AA)	
Graphic Design & Photography – Graphic Design Conc. (AA/C)	

Key: (AA)=Associate in Arts; (AA-T)=Associate in Arts for Transfer; (AS)=Associate in Science; (AS-T)= Associate in Science for Transfer; (C)=Certificate of Achievement



Santa Barbara City College

Computer Science

2017-18

Certificate of Achievement in Computer Science

Computer Science has grown dramatically over the last decade, until it now affects each of us in our daily lives. We come into contact with ten or more different computer systems each day. These range from automatic bank tellers and "intelligent" cash registers, to automobile fuel monitoring systems.

The Computer Science Department teaches students how to design and implement the computer software that brings intelligence to computer systems. Santa Barbara City College's Computer Science program includes introductory to advanced topics. It is designed to provide general education, transfer and occupational training.

Careers in Computer Science

Graduates of the Computer Science major pursue a wide variety of careers in technical positions, e.g. systems analysis, software engineering, logic design, device research, and in management. Many take initial positions with large corporations, and others with small, newly established firms. Some become entrepreneurs and consultants.

SBCC: Your Open Door to Educational Excellence