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: 28-31)

Current Course No.	Previous Course No.	Title	Units	Institution & Course No.	Grade	Units (s/q)	Term
• CIS 101	(none)	Intro. to Computers and Information Systems	4.0				
• CIS 107	(none)	Introduction to Database Systems	4.0				
• CIS 118	(none)	Visual Basic for Applications Programming **OR**	4.0				
COMP 118	(none)	Visual Basic for Applications Programming **OR**	4.0				
CIS 119	(none)	Introduction to Programming Using Visual Basic	4.0				
• COMP 111	(COMAP 111)	Microsoft Access	4.0				

Plus two of the following courses:

Current Course No.	Previous Course No.	Title	Units	Institution & Course No.	Grade	Units (s/q)	Term
• CIS 231	(none)	SQL Server Design and Programming	3.0				
• CIS 234	(none)	Oracle Design and Programming	4.0				
• CIS 252	(none)	MySQL Design and Programming	3.0				

Plus six units from the following:

Current Course No.	Previous Course No.	Title	Units	Institution & Course No.	Grade	Units (s/q)	Term
• CIS 120	(none)	Introduction to NoSQL Databases	2.0				
• CIS 232	(none)	SQL Server Database Administration	3.0				
• CIS 235	(none)	Oracle PL/SQL Programming	4.0				
• CIS 236	(none)	Oracle Database Administration	3.0				
• CIS 237	(none)	Advanced SQL Programming	2.0				
• CIS 238	(none)	Data Warehousing with SQL Server	3.0				
• CIS 239	(none)	Crystal Reports	2.0				
• CIS 251	(none)	Advanced SQL Server Programming	4.0				
• CIS 253	(none)	Business Intelligence with Microsoft SQL Server	4.0				

Recommended Course Sequence: first semester: CIS 101, 107, COMP 111; second semester: CIS 118, 119, 231, 234, 252; third semester: electives.

Additional Program Information
For further information, contact the Counseling Center, 965-0581, Ext. 2285 or Esther Frankel, Department Chair, 965-0581, Ext. 2224.

Santa Barbara City College

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)
Accounting/Assistant Bookkeeper IV (C)
Administration of Justice (AA/AS/C)–3 emph. avail (AS&C), 1(AA)
Administration of Justice for Transfer (AS-T)
Alcohol and Drug Counseling (AA/C)
American Sign Language (AA)
Animation and Gaming (AA/C)
Anthropology (AA)
Anthropology for Transfer (AA-T)
Applied Photography (AA/C)
Art (AA) - 2 emphases available
Art History for Transfer (AA-T)
Associate Child Care Teacher (C)
Automotive Services & Technology (AS/C)

Biological Sciences (AA)
Black Studies (AA)
Business Administration (AA/C) – 3 emphases available for AA, 2 for C
Business Administration for Transfer (AS-T)

Cancer Information Management (AS/C)
Chemistry (AA)
Chicano Studies (AA)
Commercial Music (C)
Communication (AA) - 2 emphases available
Communication Studies for Transfer (AA-T)
Computer App. & Office Mgmt (AS/C) - 2 emphases available
Computer Information Systems (AS) – Emph. in System Admin. available
Computer Network Engineering (AS/C)
Computer Science (AS/C)
Construction Technology (AS/C)
Cosmetology (AS/C)
Creative Writing (C) – 2 emphases available
Culinary Arts (AS/C)

Database Programming and Applications Development (C)
Diagnostic Medical Sonography (C)
Diversity Issues in ECE (C)
Drafting/CAD (AS/C)

Early Childhood Education (AS/C)
Early Childhood Education for Transfer (AS-T)
Economics (AA)
Economics for Transfer (AA-T)
Elementary Teacher Education (AA-T)
Engineering (AA/AS)
English (AA)
English for Transfer (AA-T)
Environmental Horticulture (AS/C) - 4 emphases available for AS, 1 for C
Environmental Studies (AA)
Ethnic Studies (AA)

Film Production (AA)
Film and Media Studies (AA)
Finance (AA/C)
French (AA)

Geography (AA)
Geography for Transfer (AA-T)
Geological Sciences (AS)
Geology for Transfer (AS-T)
Global Studies (AA)
Graphic Design & Photography – Graphic Design Conc. (AA/C)

Health Information Technology (AS)
Healthy Aging (AA)
History (AA)
History for Transfer (AA-T)
Honors (C/C with highest honors) – 2 emphases available
Hospitality (AS/C)
Infant/Toddler Development (C)
Interior Design (AA/C)
International Business (AA/C)
Introduction to Graphic Design (C)

Journalism (AA/C)
Journalism for Transfer (AA-T)

Kinesiology for Transfer (AA-T)

Law & Society (AA) - Emphasis in Criminal Justice available
Liberal Arts (AA) – Emphasis in Biomedical Sciences
Liberal Arts & Sciences (AA) – 3 emphases available
Liberal Studies (AA) – Emphasis in Education

Marine Diving Technician (AS/C)
Marketing (AA/C)
Mathematics (AA)
Mathematics for Transfer (AS-T)
Media Arts (AA/C)
Medical Coding Specialist (C)
Middle East Studies (AA)
Music (AA)

Native American Studies (AA)
Natural History (AA)
Nursing - ADN (AS)

PC Support/Network Management (C)
Philosophy (AA)
Philosophy for Transfer (AA-T)
Physical Education (AA) – Emphasis in Athletic/Personal Fitness avail.
Physics (AA/AS)
Physics for Transfer (AS-T)
Political Science (AA)
Political Science for Transfer (AA-T)
Post-Professional Practice in ADC (C)
Psychology (AA)
Psychology for Transfer (AA-T)

Radiography (AS)
Real Estate (AS/C)

School-Age Care (C)
Sociology (AA)
Sociology for Transfer (AA-T)
Spanish (AA)
Spanish for Transfer (AS-T)
Studio Arts for Transfer (AA-T)

Theatre Arts (AA) - 3 emphases available
Theatre Arts for Transfer (AA-T)
Transfer – CSU General Education Breadth Pattern (C)
Transfer – IGETC (C)

Vocational Nursing (AS/C)

Wastewater Technology Education (C)
Water Technology Education (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

SB CC **Santa Barbara City College**

Database Programming and Applications Development

2017-18

Certificate of Achievement for Database Programming & Applications Development

This certificate prepares students for employment as junior programmers, programmer/analysts, and systems analysts and designers. The areas of emphasis include Visual Basic, Access, and SQL Server.

SBCC: Your Open Door to Educational Excellence