Computer Science

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)

Current	Previous			Institution &		Units	
Course No.	Course No.	Title	Units	Course No.	Grade	(s/q)	<u>Term</u>
• CS 101	(COMSC 101/1)	Computer Concepts	4.0				
	,	Theory and Practice I					
		Introduction to the Linux Operating System					
• CS 137	(COMSC 137/37)	"C" Programming <i>OR</i>	3.0				
	,	Object-Oriented Programming Using C++					
	\ /	Intermediate Algebra					
	` '	Introduction to Logic					
• PHYS 102	(2)	Introduction to Physics for Science Majors	4.0				
Plus two co	urses from the following.						
• CS 106	(145JCOMSC 145J/145/4	5) Theory and Practice II	3.0				
• CS 107	(131/COMSC 131/31)	Computer Architecture and Organization	3.0				
		HTML and Webmastering					
		"C" Programming					
• 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).

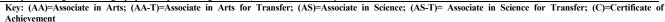
Additional Program Information

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

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.

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





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