

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.

Department Requirements

(Total Department Units: 33-37)

<i>Current</i> Course No.	<i>Previous</i> Course No.	<i>Title</i> <small>applies to SBCC GE areas</small>	<i>Units</i>	<i>Institution &</i> Course No.	<i>Grade</i>	<i>Units</i> (s/q)	<i>Term</i>
• CS 105	(135/COMSC 135/35)...	Theory and Practice I.....	3.0	_____			
• CS 106	(145J/COMSC 145J/145/45)	Theory and Practice II	3.0	_____			
• CS 107	(131/COMSC 131/31)...	Computer Architecture & Organiz....	3.0	_____			
• CS 108	(143)	Discrete Structures.....	4.0	_____			
• CS 140	(COMSC 140)	Object-Oriented Prog, Using C++....	4.0	_____			
• MATH 150..	(25)	Calculus with Analytic Geom. I ^{D2}	5.0	_____			
• PHYS 121....	(21)	Mechanics of Solids and Fluids ^A	5.0	_____			

Plus at least 6 units from the following:

• CS 104	(200)	Introduction to Programming	3.0	_____			
• CS 111	(COMSC 111)	HTML & Webmastering	3.0	_____			
• CS 115	(none)	JavaScript and Dynamic HTML	3.0	_____			
• CS 116	(none)	Webserver Programming.....	3.0	_____			
• CS 123	(none)	Android Programming.....	1.5	_____			
• CS 130	(COMSC 130)	Intro. to the Linux Operating System	2.5	_____			
• CS 132	(none)	Digital Logic Design	3.0	_____			
• CS 133	(none)	Intro to Programming for Engineers .	3.0	_____			
• CS 137	(COMSC 137/37).....	C Programming.....	3.0	_____			
• CS 165	(none)	Software Design Patterns	1.5	_____			
• CS 180	(COMSC 180)	Software Engineering with UML.....	3.0	_____			
• CS 187	(none)	iOS Programming	3.0	_____			
• CS 189	(none)	Programming Practicum.....	1.0	_____			
• MATH 160..	(26)	Calculus with Analytic Geom. II ^{D2} ...	5.0	_____			
• MATH 200..	(27)	Multivariable Calculus ^{D2}	4.0	_____			
• MATH 210..	(29)	Linear Algebra ^{D2}	4.0	_____			
• MATH 220..	(28)	Differential Equations ^{D2}	4.0	_____			
• PHIL 205	(5)	Introduction to Logic ^{D2}	3.0	_____			
• PHYS 122....	(22)	Electricity and Magnetism.....	5.0	_____			

Additional Program Information

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

SBCC AA/AS Degree Graduation Requirements Worksheet (Must complete IA or IB or IC, and II, and III and IV below)



Santa Barbara City College

Computer Science

2017-18

Associate in Science Degree 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.

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IA. IGETC (http://articulation.sbcc.edu/IGETC/IGETC.pdf)		Course #	Grade	Units (s/q)	Term
1A.	English Composition				
1B.	Critical Thinking-English Composition				
1C.	Oral Communication (CSU only)				
2A.	Mathematics				
3A.	Arts				
3B.	Humanities				
4.	Social Sciences				
5A/5C.	Physical Sciences				
5B/5C.	Biological Sciences				
6A.	Language Other Than English (UC only)				
IB. CSU GE Breadth Pattern (http://articulation.sbcc.edu/CSU/CSUGE.pdf)		Course #	Grade	Units (s/q)	Term
A1.	Oral Communication				
A2.	Written Communication				
A3.	Critical Thinking				
B1/B3.	Physical Science				
B2/B3.	Life Science				
B4.	Mathematics				
C1.	Arts				
C2.	Humanities				
D.	Social Sciences				
E.	Lifelong Learning and Self-Development				
IC. SBCC GE, Institutional & Info Competency (http://www.sbcc.edu/apply/files/pereg.pdf)		Course #	Grade	Units (s/q)	Term
A.	Natural Sciences with Lab				
B.	Social and Behavioral Science				
C.	Humanities				
D-1.	English Composition				
D-2.	Communication and Analytical Thinking				
E-1.	Mathematics - Plus complete 3 out of the 4 areas listed below (E-2 through E-5)				
E-2.	American Institutions				
E-3.	Physical Education/Health Education				
E-4.	Oral Communication				
E-5.	Multicultural/Gender Studies				
F.	Information Competency				

II. Unit and Grade Point Average Requirements: Refer to Graduation Requirements on the other side of this document.

	Total Semester Units Attempted	Total Semester Units Completed	Grade Points	GPA
SBCC				
Transfer				
Total				

III. Residency Requirements: 15 units completed through SBCC & 20% of Department Requirements completed through SBCC? Yes No

IV. Department Requirements: Refer to the other side of this document for a list of department required courses. Yes No