

Department Requirements (Total Department Units: 40.5-45.5)

<i>2011-12</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 101	(COMSC 101/1)	Computer Concepts ^{D2}	3.0				
• CS 120	(COMSC 120)	Java Programming	3.0				
• CS 130	(COMSC 130)	An Introduction to UNIX.....	1.5				
• CS 131	(COMSC 131/31).....	Assembly Language Programming ...	4.0				
• CS 135	(COMSC 135/35).....	Programming Fundamentals.....	3.0				
• CS 137	(COMSC 137/37).....	C Programming OR	3.0				
CS 140.....	(COMSC 140)	Object-Oriented Prog, Using C++	4.0				
• CS 143	(none).....	Discrete Math.....	4.0				
• CS 145J	(COMSC 145J/145/45)	Introduction to Data Structures OR ...	3.0				
CS 145P.....	(COMSC 145P/145/45)	Introduction to Data Structures.....	3.0				
• MATH 150	(25).....	Calculus with Analytic Geom. I ^{D2}	5.0				
• MATH 160	(26).....	Calculus with Analytic Geom. II ^{D2}	5.0				

Plus two courses from the following**:

• CS 111	(COMSC 111)	HTML & Webmastering	3.0				
• CS 137	(COMSC 137/37).....	C Programming.....	3.0				
• CS 140	(COMSC 140)	Object-Oriented Prog, Using C++	4.0				
• CS 180	(COMSC 180)	Software Engineering with UML	3.0				
• 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 102* ...	(2).....	Intro to Physics for Sci. Majors ^A	4.0				
• PHYS 121.....	(21).....	Mechanics of Solids and Fluids ^A	5.0				
• PHYS 122.....	(22).....	Electricity and Magnetism.....	5.0				

*Physics 102 does not count towards department requirements if either Physics 121 or 122 has been taken.

**MATH 250/260 may also count toward the elective requirement.

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

Associate Degree Graduation Requirements: (1) Complete all department requirements with a “C” or better in each course. Candidates for an Associate Degree are also required to complete at least 20% of the department requirements through SBCC. Pass/No Pass grading is not permitted in those courses needed to fulfill department requirements; (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) Candidates for an Associate Degree are required to complete 15 units through SBCC.

Additional Program Information

For further information, contact the Counseling Center, 965-0581, Ext. 2285, or Jackie Kuehn, Department Chair, 965-0581, Ext. 2693. Check your degree progress with DARS U-Achieve at www.sbcc.edu/DARS.

SBCC AA/AS Degree Graduation Requirements (Must complete I, II, III and IV below)



Computer Science

2011-12

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.

I. General Education, Institutional & Information Competency (Institution & Course Number)	Grade	Units (s/q)	Term
A-D. General Education Requirements**			
A. Natural Sciences with Lab			
B. Social and Behavioral Science			
C. Humanities			
D. Language and Rationality			
D-1. English Composition			
D-2. Communication and Analytical Thinking			
E. SBCC Institutional Requirements**			
E-1. Mathematics			
<i>Plus complete three out of the four areas listed below (E-2 through E-5)</i>			
E-2. American Institutions			
E-3. Physical Education/Health Education			
E-4. Oral Communication			
E-5. Multicultural/Gender Studies			
F. Information Competency Requirement**			

**For specific course, unit, grade and other graduation requirements see the General Education, Institutional and Information Competency Requirements handout available in the Counseling department or visit <http://www.sbccc.edu/apply/files/gereq.pdf>

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

	<i>Total Semester Units Attempted</i>	<i>Total Semester Units Completed</i>	<i>Grade Points</i>	<i>GPA</i>
SBCC				
Transfer				
Total				

III. Residency Requirements: 1) 15 units completed through SBCC? Yes No
 2) 20% of Department Requirements completed through SBCC? Yes No

IV. Department Requirements: Refer to the other side of this document for a list of required courses. Were all department requirements completed with a "C" or higher in each course? Yes No

Waivers/Substitutions: _____

Counselor Comments: _____

Student's Name: _____ Student ID: K _____

Counselor's Name: _____ Code: _____ Date: _____

