

Department Requirements (Total Department Units: 35-36)

<i>2011-12</i> <i>Course No.</i>	<i>Previous</i> <i>Course No.</i>	<i>Title</i> <small><i>applies to SBCC GE areas</i></small>	<i>Units</i>	<i>Institution &</i> <i>Course No.</i>	<i>Grade</i>	<i>Units</i> <i>(s/q)</i>	<i>Term</i>
• CIS 209	(none)	Visual Basic .NET Programming OR	4.0				
CS 120	(COMSC 120)	Java Programming OR	3.0				
CS 131	(COMSC 131/31)	Assembly Language Programming OR	4.0				
CS 135	(COMSC 135/35)	Programming Fundamentals OR	3.0				
CS 137	(COMSC 137/37)	C Programming OR	3.0				
CS 140	(COMSC 140)	Object-Oriented Prog, Using C++	4.0				
• MATH 150	(25)	Calculus with Analytic Geometry I ^{D2}	5.0				
• MATH 160	(26)	Calculus with Analytic Geometry 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				
• PHYS 121	(21)	Mechanics of Solids and Fluids ^A	5.0				
• PHYS 122	(22)	Electricity and Magnetism OR	5.0				
PHYS 123	(23)	Heat, Light and Modern Physics	5.0				

*MATH 250/260 will also satisfy these requirements.

Note: For a Math A.A. degree at least one of the courses MATH 200, 210, 220 must be taken at SBCC.

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 Bronwen Moore, Department Chair, 965-0581, Ext. 2432.

Check your degree progress with DARS U-Achieve at www.sbccc.edu/DARS.

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



Santa Barbara City College

Mathematics

2011-12

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**			

Associate in Arts Degree in Mathematics

The Mathematics Department at Santa Barbara City College offers a broad curriculum to meet the needs of students with a variety of goals. In all of the department's course offerings, there is a strong commitment to training the student in analytical skills and logical thinking as part of a problem solving attitude which can be transferred outside the formal classroom setting.

Standard college level sequence of courses in single and multivariable calculus, analytic geometry, linear algebra and ordinary differential equations is offered for students transferring to four-year schools as preparation for a mathematics major or a math-based major.

Careers in Mathematics

The list of careers a mathematics major can lead to is probably longer than you may think. Environmental scientist, actuary, computer programmer, efficiency expert, financial analyst and patent lawyer are just a few of the possibilities. A more complete list can be found in the Career Center at SBCC.

**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: _____

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