

Department Requirements (Total Department Units: 50-51)

<i>2011-12 Course No.</i>	<i>Previous Course No.</i>	<i>Title</i> <small>applies to SBCC GE areas</small>	<i>Units</i>	<i>Institution & Course No.</i>	<i>Grade</i>	<i>Units (s/q)</i>	<i>Term</i>
• CHEM 155	(5)	General Chemistry I ^A	5.0				
• CHEM 156	(6)	General Chemistry II	5.0				
• 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 Programming, 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	5.0				
• PHYS 123	(23)	Heat, Light and Modern Physics	5.0				

*MATH 250 & 260 will also satisfy the MATH 200 & 210 & 220 requirements.

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 Michael Young, Department Chair, 965-0581, Ext. 2697. 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

Physics

2011-12

Associate in Arts/Science Degree in Physics

Physics is the foundation discipline which must be incorporated into the education of anyone preparing for a career in a physical or a life science. Knowledge of Physics is also necessary for those people who are non-scientists, when their decisions are linked to technologies based on the application of physical principles. These include people in the fields of politics, business, and social science.

Careers in Physics

Because of a strong background in math and science, a physicist has a wide variety of job opportunities available. A few of the many career opportunities open to a physicist are research scientist, teacher, laboratory technician, science librarian, technical writer, engineer, and engineering related fields.

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: _____

SBCC: Your Open Door to Educational Excellence