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: 50-51)

Current	Previous			Institution &		Units	
Course No.	Course No.	Title applies to SBCC GE areas	Units	Course No.	Grade	(s/q)	Term
• CHEM 155	(5)	. General Chemistry I A	5.0				
	· /	The state of the s	_				
	· /	. General Chemistry II	_				
• CS 105	(135/COMSC 135/35)	. Theory and Practice I <i>OR</i>	3.0				
CS 107	(131/COMSC 131/31)	. Computer Architecture & Organization Ol	R 3.0				
CS 137	(COMSC 137/37)	. C Programming OR	3.0				
		. Object-Oriented Programming, Using C++					
	` /	. Calculus with Analytic Geometry I D2	_				
		. Calculus with Analytic Geometry II D2					
• MATH 200*.	(27)	Multivariable Calculus ^{D2}	4.0				
		. Linear Algebra ^{D2}					
• 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.

Additional Program Information

For further information, contact the Counseling Center, 965-0581, Ext. 2285, or Michael Young, Department Chair, 965-0581, Ext. 2697.

Santa Barbara City College

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

IA. IGET	C (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				
Е.	Lifelong Learning and Self-Development				
IC. SBCC	CGE, Institutional & Info Competency (http://www.sbcc.edu/apply/files/gereq.pdf)	Course #	Grade	Units (s/q)	Term
A.	Natural Sciences with Lab				
В.	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		1		
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				

II. Residency Requirements: 15 units completed through SBCC & 20% of Department Requirements completed	eted through SBCC?
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IV. Department Requirements: Refer to the other side of this document for a list of department required courses.

☐ Yes	\square N	c

□ No

□ Yes



Physics

2017-18

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.

SBCC: Your Open Door to Educational Excellence