

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: 28.8-30.8)

<i>Current 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	_____			
• CHEM 211	.....(11).....	Organic Chemistry I	3.0	_____			
• CHEM 212	.....(12).....	Organic Chemistry II	3.0	_____			
• CHEM 221	.....(13L).....	Organic Chemistry Laboratory I	2.3	_____			
• CHEM 222	.....(14L).....	Organic Chemistry Laboratory II	2.5	_____			
<i>Controlled Electives: Select 8 units from the following:**</i>							
• MATH 117	.....(17).....	Elementary Statistics ^{D2} OR	4.0	_____			
MATH 117H	.....(117HR).....	Elementary Statistics, Honors ^{D2}	4.0	_____			
• MATH 130	.....(18).....	Calculus for Biol. Sci./Soc. Sci./Business I ^{D2}	5.0	_____			
• MATH 131	.....(19).....	Calculus for Biol. Sci./Soc. Sci./Business II ^{D2}	3.0	_____			
• MATH 137	.....(none).....	Precalculus I, College Algebra & Functions ^{D2}	5.0	_____			
• MATH 138	.....(none).....	Precalculus II, College Algebra & Trig ^{D2}	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 105	.....(5).....	General Physics ^A	4.0	_____			
• PHYS 106	.....(6).....	General Physics ^A	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 140(21)/141(22) and 250/260 may also count toward the Controlled Electives requirement.

Additional Program Information

For further information, contact the Counseling Center, 965-0581, Ext. 2285, or Jens-Uwe Kuhn, Department Chair, 965-0581, Ext. 4319.

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

Chemistry

2017-18

Associate in Arts Degree in Chemistry

From its obscure beginnings in alchemy and philosophy, chemistry has emerged as the central science in the modern world. There is virtually no area of science that is unaffected by discoveries in the field of chemistry. Because chemistry touches so many areas of human activity, it is essential that each individual have a basic understanding of chemical principles. Only in this way can citizens make intelligent decisions concerning applications of technology.

Careers in Chemistry

A degree in chemistry offers marketability and variety. For example, a coalition of chemists and biologists are attempting to correct defects in living organisms through genetic engineering. Other chemists are involved in helping to increase the world's food supply, develop synthetic fuels, and produce extremely pure chemicals for use in computers and energy-conversion devices.

SBCC: Your Open Door to Educational Excellence

IA. IGETC (<http://articulation.sbccc.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.sbccc.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.sbccc.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