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Undergraduate Programs

Chemistry Majors: The Bachelor of Arts degree with a major in chemistry consists of a total of 124 units including 37-39 units of chemistry. The Bachelor of Science degree with a major in chemistry consists of a total of 124 units including a minimum of 46 units in chemistry.

High School Preparation: The high school preparation for majors in the Department of Chemistry should include: algebra (2 years), plane and solid geometry, trigonometry, chemistry, and physics.

Prospective students may elect to take the general chemistry placement test at college entrance. A satisfactory score in this test will permit the student to start the chemistry course sequence with CHEM 1B.

Bachelor of Arts**Degree Requirements**

The Bachelor of Arts degree in Chemistry is intended primarily for those students who plan to take extensive coursework in other areas in addition to chemistry. This degree is suitable for prehealth professional students (premedical, predental, etc.), secondary school teaching credential students, and biochemistry students oriented toward biotechnology and the health professions. This degree is *NOT* intended for students who anticipate a career in chemistry, or who expect to continue their education in pursuit of graduate degrees.

Note: Chemistry majors may not take courses listed in category A or B for *CR/NC* grades.

	<i>Units</i>
A. The B.A. Chemistry Major	37-39
<i>Core Program</i>	
CHEM 1A, 1B, 102, 108, 128A, 128B, 129A, 155....	(30)
<i>Emphasis</i>	
CHEM 156.....	(3)

Elect two courses from CHEM 129B, 142, 153, 241A, 241B	(4-6)
B. Additional requirements	32-35
BIOSC 1A, 1B	(9)
Elect two courses from BIOSC 140A, BIOSC 140B, MICRO 140 or other ap- proved courses	(7)
MATH 75, 76 (MATH 77 strongly recommended) ...	(8)
PHYS 2A, 2B (or PHYS 4A, 4AL, 4B, 4BL, 4C strong- ly recommended)	(8-11)
C. Remaining General Education requirements	42*
D. Electives and remaining degree requirements	8-13
(See <i>Degree Requirements</i>); may be used toward a dual major or minor.	
Total	124

* Of the 51 required General Education units, 9 units will be satisfied by the following courses in the major and additional requirements: 3 units of CHEM 1A or PHYS 2A in G.E. Breadth B1; 3 units of BIOSC 1A in G.E. Breadth B2; and 3 units MATH 75 in G.E. Foundation B4. Consult the department chair or faculty adviser for additional details.

The following is an example of a four-year program for the B.A. in Chemistry.

	<i>Units</i>
First Semester — Fall	
CHEM 1A	5
MATH 75	4
ENGL 1	3
General Education	3
	15
Second Semester — Spring	
CHEM 1B	5
MATH 76	4
PHYS 2A or 4A, 4AL	4
General Education	3
	16
Third Semester — Fall	
CHEM 128A	3
CHEM 129A	2
PHYS 2B or 4B, 4BL	4
BIOSC 1A	4
General Education	3
	16
Fourth Semester — Spring	
CHEM 128B	3
CHEM 102	5
BIOSC 1B	5
Electives or General Education	3
	16

Fifth Semester — Fall*

**CHEM 108	4
**CHEM 155	3
BIOSC 140A	4
Electives or General Education	5
	16

Sixth Semester — Spring

***CHEM 156	3
BIOSC 140B or MICRO 140	4
Electives or General Education	8
	15

Seventh Semester — Fall

Electives or General Education	15
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Eighth Semester — Spring

Electives or General Education	15
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Total	124
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* It is important to fulfill the Upper-Division Writing Skills requirement by exam or W class during the junior year.

** Offered fall semester only.

*** Offered spring semester only.

**Bachelor of Science
Degree Requirements**

The Bachelor of Science degree in Chemistry is intended for students who plan a career in chemistry. The B.S. degree is accredited by the American Chemical Society. Students who satisfactorily complete this program are recommended by the department for certification as graduate chemists by the American Chemical Society. The B.S. degree prepares students to enter the job market or for graduate study leading to an advanced degree, such as a Master of Science or Doctor of Philosophy.

Note: Chemistry majors may not take courses listed in category A or B for *CR/NC* grades.

	<i>Units</i>
A. The B.S. Chemistry Major	46
CHEM 1A, 1B, 102, 106, 110A, 110B, 111, 123, 124, 128A, 128B, 129A, 129B, 155	
B. Additional requirements	23
MATH 75, 76, 77; PHYS 4A, 4AL, 4B, 4BL, 4C	
C. Remaining General Education requirements	45*
D. Electives	10
Recommended: CHEM 130, 140T, 142, 153, 156, 160, 190	
Total	124

* Of the 51 required General Education units, 3 units will be satisfied by PHYS 4A and 4AL in G.E. Breadth B1, and 3 units of MATH 75 in G.E. Foundation B4. Consult the department chair or faculty adviser for details.