

For information call:

Tel: (818) 677-3381
Fax: (818) 677-4068

E-mail:
chemistry.office@csun.edu

Website:
<http://www.csun.edu/chemistry>

Or write:
Department of Chemistry and Biochemistry
California State University, Northridge
18111 Nordhoff Street
Northridge, CA 91330-8262

THE MAJOR

Chemistry is called the central science. It addresses problems raised in related fields such as biology, geology, physics, and engineering. Chemists attack such problems by analyzing substances, synthesizing new substances, and by measuring the properties of materials.

CAREERS

A degree in chemistry will enable you to work as a professional chemist in a chemical facility synthesizing compounds, analyzing qualitatively and quantitatively the content of various materials, and measuring the properties of chemical substances. A degree in biochemistry will enable you to work in the developing field of genetic engineering. A degree in environmental chemistry will help you pursue a career in the area of environmental protection. In addition, any of the degree options in chemistry will enable you to enter professional schools such as medical, dental, or pharmacy schools.

For additional information on the program, see the 2006-2008 university catalog.

REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE

Students should consult course descriptions to determine whether course prerequisites have been met.

Entry of any student into Chemistry 101/101L is subject to a satisfactory score on the Chemistry Placement Test (see catalog section on the Chemistry Placement Test). This requirement may also be satisfied by passing Chemistry 100 at this University with a grade of "C" or better. (A grade of "C-" is unacceptable.)

LOWER DIVISION REQUIRED COURSES (24 UNITS)

MATH 255A/255B	Calculus I and II.....	6
PHYS 100A/L	General Physics I/Lab.....	4
PHYS 100B/L	General Physics II/Lab.....	4
CHEM 101/L	General Chemistry I/Lab.....	5
CHEM 102/L	General Chemistry II/Lab.....	5

UPPER DIVISION REQUIRED COURSES (24 UNITS)

CHEM 321/L	Chemical Analysis I/Lab.....	4
CHEM 422/L	Chemical Analysis II/Lab.....	4
CHEM 333/L & R	Principles of Organic Chemistry I.....	5
CHEM 334/L & R	Principles of Organic Chemistry II.....	5
CHEM 355	Fundamentals of Physical Chemistry.....	3
CHEM 355L	Experimental Physical Chemistry.....	1
CHEM 401	Inorganic Chemistry.....	3
CHEM 495A	Directed Undergraduate Research	

or

CHEM 499A	Independent Study with a presentation of a seminar.....	1
-----------	---	---

UPPER DIVISION ELECTIVES (5 UNITS)

CHEM electives selected with approval of major advisor from 400- or 500- level courses in Chemistry. At least 3 units must be from electives other than CHEM 495 and 499.

TOTAL UNITS IN THE MAJOR (57 UNITS)

GENERAL EDUCATION (36 UNITS)

Basic Skills Mathematics and the entire Natural Sciences section are fulfilled by required courses in the major.

TITLE 5 (6 UNITS)

ADDITIONAL UNITS (27 UNITS)

TOTAL UNITS REQUIRED FOR B.A. DEGREE IN CHEMISTRY: 120