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California State University, Northridge
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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 SCIENCE DEGREE IN CHEMISTRY

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 (36 UNITS)

MATH 150A	Mathematical Analysis I.....	5
MATH 150B	Mathematical Analysis II.....	5
MATH 250	Mathematical Analysis III.....	3
MATH 280	Applied Differential Equations.....	3
PHYS 225 & 220AL	Physics Mechanics and Lab.....	5
PHYS 226 & 220BL	Electricity and Magnetism and Lab.....	5
CHEM 101/L	General Chemistry I and Lab.....	5
CHEM 102/L	General Chemistry II and Lab.....	5

UPPER DIVISION REQUIRED COURSES (37 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 351	Physical Chemistry I.....	4
CHEM 352/L	Physical Chemistry II and Lab.....	5
CHEM 401/L	Inorganic Chemistry and Lab.....	4
CHEM 411	Synthesis.....	3
CHEM 464	Principles of Biochemistry.....	4
CHEM 495A	Directed Undergraduate Research	

or

CHEM 499A	Independent Study with a presentation of a seminar.....	1
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UPPER DIVISION ELECTIVES (3 UNITS)

Chemistry electives selected with approval of the major advisor from 400- or 500- level courses in Chemistry other than CHEM 495 and 499.

TOTAL UNITS IN THE MAJOR (78 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 (8 UNIT)

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