

CHEMISTRY COURSE SEQUENCE

General Education

CSU and SMC Allied Health

Nursing, Respiratory Therapy,
and Others

STEM Life Science, Physical Science, Engineering

Pre-Med, Pre-Dental, Pre-Pharm
**UCLA Nursing requires Chem 12

Higher Level/STEM

Freshman Level/STEM

Preparatory Basics

Non-science major
Transfer to 4-year
Institution

Enter Nursing or other
Allied Health Program

When preceded by Chem 11 + 12, some combination of these courses can meet transfer requirements for Chemistry, Biochemistry or Chemical Engineering majors, and will serve as prerequisites for Medical, Dental, or Pharmacy School.

CHEMISTRY 31
Biochemistry I
with Laboratory

CHEM 22/24*
Organic Chemistry II
with Laboratory

CHEMISTRY 21
Organic Chemistry I
with Laboratory

CHEMISTRY 12**
General Chemistry II
Prerequisite: Math 2

CHEMISTRY 11*
General Chemistry I
Prerequisite: Math 20

CHEMISTRY 10
Introductory General
Chemistry with Laboratory
Prerequisite:
Math 31 or Math 49

CHEMISTRY 9
Everyday Chemistry
with Laboratory

CHEMISTRY 19
Fundamentals of General,
Organic, and Biological
Chemistry, with Laboratory
Prerequisite:
Math 31 or Math 49

Best option for all non-science
majors seeking GE credit.

Elementary Algebra skills
are recommended.

Preferred
Prerequisite for
Physiology and for
Microbiology

*Lecture and lab
may be taken
separately

Chem 11 and 12 meet
the requirements for
Physics Majors and most
Engineering majors

*Eligibility for Chem 11
Established by Placement
with CCDT or by HS
Chemistry AP Exam Score
of 3, 4, 5.