MINOR IN CHEMISTRY

CATALOG YEAR 2020-2021

MINOR REQUIREMENTS

- The minor requires 6 unique units that cannot be used to satisfy any other major or minor within the same degree
  - Each department has their own unique double dipping policy. Check with your major advisor regarding your department’s policy.
  - Some double dipping policies may require you to take additional electives.
  - Chemical Engineering majors are exempt from this requirement. All coursework can be shared with the CHEE degree.

REQUIRED INTRODUCTORY COURSES

General Chemistry

_____CHEM 151 OR 161/162 OR 141/143 (4)
_____CHEM 152 OR 162/164 OR 142/144 (4)

Laboratory Units (Complete a minimum of 2 units of laboratory coursework from the options below.)

Organic Chemistry (Only one of each A or B course is allowed)

_____CHEM 243A (1) OR 247A (2) OR 244A (1)
_____CHEM 243B (1) OR 247B (2) OR 244B (1)

Quantitative Analysis (Analytical Chemistry)

_____CHEM326 (2)

ELECTIVE COURSES

Complete 10 additional units. Check prerequisites before enrolling. Units beyond 2 in the above required laboratory section may also apply here.

Organic Chemistry

_____CHEM 241A OR 242A (F) OR 246A (F) (3)
_____CHEM 241B OR 242B (S) OR 246B (S) (3)

Quantitative Analysis (Analytical Chemistry)

_____CHEM325 (2)

Instrumental Analysis

_____CHEM 401A (S) (3)
_____CHEM 404A (F) (3)

Inorganic Chemistry

_____CHEM 404A (S) (3)
_____CHEM 412 (3)
_____CHEM 404B (3)

Organic Chemistry

_____CHEM 446 (3)
_____CHEM 447 (3)
_____CHEM 450 (3)

Physical Chemistry

_____CHEM 480A (3)
_____CHEM 480B (3)
_____CHEM 481 (S) (3)
_____CHEM 400B (S) (3)

Biochemistry

_____BIOC 384 (3) OR BIOC 462A (4)
_____BIOC 385 OR BIOC 462B (4)

Other

_____ASTR 448A Astrochemistry (3)
_____CHEE/CHEM/MSE 437 Surface Science (3)
_____CHEM 405 Chemical Safety (1)
_____ENVS 340 Environmental Chemistry (3)

_____ENVS 462 Environmental Soil and Water Chemistry (3)
_____ENVS 464 Environmental Organic Chemistry (3)
_____GEOS 400 Introduction to Geochemistry (3)

_____MSE 430 Organic Electronic Materials & Devices (3)

_____MSE 460 Materials Science of Polymers (3)
_____PCOL 410 Medicinal Chemistry (5)

_____PHYS 426 Thermal Physics (3)

_____PHYS 431 Molecular Biophysics (3)

_____PHYS 484 Nuclear Magnetic Resonance Spectroscopy (3)

_____PLS 448A Plant Biochemistry and Metabolic Eng. (3)

_____PTYS 407 Chemistry of the Solar System (3)

_____PTYS 416 Asteroids, Comets, Kuiper Belt Objects (3)

Course offerings are subject to change. Please consult the Schedule of Classes for semester course information. Graduate chemistry courses are also eligible. Other courses may be allowed with prior approval. Contact a CBC advisor with questions.