

MINOR IN CHEMISTRY

CATALOG YEAR 2020-2021



THE UNIVERSITY OF ARIZONA
COLLEGE OF SCIENCE
COLLEGE OF MEDICINE TUCSON

Chemistry & Biochemistry

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 405A Basic Lab Safety (1) (S)

___ CHEM 405B Advanced Lab Safety (1) (S)

___ CHEM 405C Chemical Hygiene and Regulations (1) (S)

___ ENV5 340 Environmental Chemistry (3)

___ ENV5 462 Environmental Soil and Water Chemistry (3)

___ ENV5 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.