

# 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 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.*