

MINOR IN BIOCHEMISTRY

CATALOG YEAR 2022-2023



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.
- Total units required: 24
- Upper division units required: 9

REQUIRED INTRODUCTORY COURSES

General Chemistry

____ CHEM152 **OR** 162/164 **OR** 142/144

Introductory Biology

____ MCB181R ____ MCB181L

Organic Chemistry

____ CHEM241A (3) ____ CHEM243A (1) ____ CHEM241B (3)

BIOCHEMISTRY CORE

First Semester Biochemistry (Complete one course. Students must complete all pre-requisites prior to enrolling)

____ BIOC 384 **OR** BIOC 462A

Second Semester Biochemistry (Complete one course. Students must complete all pre-requisites prior to enrolling)

____ BIOC 385 **OR** BIOC 462B

Life Science Elective (Complete one 300-400 level course from the list below or as pre-approved by a CBC advisor.)

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| ____ BIOS 376 (3) Introduction to Biostatistics | ____ NSC 408 (3) Nutritional Biology |
| ____ BME 486 (3) Biomaterial-Tissue Interactions | ____ NSC 475 (3) Nutrigenomics for the Study of Disease |
| ____ CHEE 477R (3) Microbiology for Engineers | ____ NSCS 307 (3-4) Cellular Neurophysiology |
| ____ CHEM 405A (1) Basic Lab Safety | ____ NROS 310 (3-4) Molecular and Cellular Biology of Neurons |
| ____ CHEM 405B (1) Advanced Lab Safety | ____ NROS 430 (3) Neurogenetics |
| ____ CHEM 405C (1) Chemical Hygiene and Regulations | ____ PCOL 320 (3) What's Your Poison? Toxicology of Substances |
| ____ CHEM 450 (3) Synthetic and Mechanistic Organic Chem | ____ PCOL 410 (5) Medicinal Chemistry |
| ____ ECOL 320 or 320H (4-5) Genetics | ____ PHCL 412 (3) Intro. to Pharmacology |
| ____ ECOL 326 (3) Genomics | ____ PHCL 445 (3) Drugs of Abuse |
| ____ ECOL 346 (4) Bioinformatics | ____ PHYS 431 (3) Molecular Biophysics |
| ____ ENVS 474 (4) Aquatic Plants and the Environment | ____ PLP 320 (3) Microbiomes |
| ____ ENVS 477 (3) Principles of Ecotoxicology | ____ PLP 32 (3) Microbiology |
| ____ IMB 401 (4) Medical Microbiology and Immunology | ____ PLP 428R (3) Microbial Genetics |
| ____ MATH 363 (3) Intro to Statistical Methods | ____ PLS 312 (4) Animal and Plant Genetics |
| ____ MCB 304 (4-5) Molecular Genetics | ____ PLS 340 (3) Intro. to Biotechnology |
| ____ MCB 325 (3-4) The Biology of Cancer | ____ PLS 359 (3) Plant Cell Structure and Function |
| ____ MCB 340 (3) Introduction to Biotechnology | ____ PLS 360 (3) Plant Growth and Physiology |
| ____ MCB 410 (3-4) Cell Biology | ____ PLS 448a (3) Plant Biochemistry and Metabolic Engineering |
| ____ MCB 411 (3-4) Molecular Biology | ____ PSIO 380 (4) Fundamentals of Human Physiology |
| ____ MCB 416A (3) Bioinformatics & Functional Genomic Analysis | ____ PSIO 404 (3) Advanced Topics in Cellular Physiology |
| ____ MCB 425 (3) Cancer Discoveries | ____ PSIO 420 (3) Exercise and Environmental Physiology |
| ____ MCB 480 (3) Intro to Systems Biology | ____ PSIO 427 (3) Metabolism and Disease |
| ____ MIC 328R (3) Microbial Physiology | ____ PSIO 431 (3) Physiology of the Immune System |
| ____ MIC 419 (4) Immunology | ____ PSIO 465 (3) Neurophysiology |
| ____ MIC 428R (3) Microbial Genetics | ____ PSIO 484 (3) Cardiovascular Muscle Biology and Disease |
| ____ MIC 452 (3) Antibiotics – A Biological Perspective | ____ PSY 413 (3) Drugs, Brain and Behavior |

Course offerings are subject to change. Please consult the Schedule of Classes for specific semester course information.