# **MINOR IN BIOCHEMISTRY**

# CATALOG YEAR <u>2022-2023</u>

## **MINOR REQUIREMENTS**



- The minor requires <u>6 unique units</u> 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 <u>OR</u> 162/164 <u>OR</u> 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 <u>**OR**</u> BIOC 462A

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

\_\_\_\_BIOC 385 <u>OR</u> BIOC 462B

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

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 329A (3) Microbial Diversity
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.	

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