

Name:

SID:

General Information: The minor requires **6 unique units** that cannot be used to satisfy any other major or minor. This policy may require you to take additional Upper Division Life Science Electives.

- Total units required: 22+
- Upper-division units required: 9+
- AZ Online students: electives that are offered as AZ Online classes are in **bold**.

REQUIRED FOUNDATIONAL COURSES**General Chemistry**CHEM 152 or 162/164 or **142/146** or 182 4**Introductory Biology****MCB 181R** 3

MCB 181L 1

Organic Chemistry Lectures

CHEM 241A – Organic Chemistry 1 3

CHEM 241B – Organic Chemistry 2 3

Organic Chemistry Lab

CHEM 243A 1

BIOCHEMISTRY CORE**First Semester Biochemistry****BIOC 384** or BIOC 462A 3-4**Second Semester Biochemistry****BIOC 385** or BIOC 462B 3-4**LIFE SCIENCE ELECTIVE – Complete at least 3 units****BIOS 376 – Intro. to Biostatistics** 3

BME 486 – Biomaterial-Tissue Interactions 3

CHEE 377 – Microbiology for Engineers 3

CHEM 450 – Synth & Mechanistic Organic Chem 3

ECOL 320/320H – Genetics 4-5**ECOL 326 – Genomics** 3**ECOL 346 – Bioinformatics** 4

ENVS 474 – Aquatic Plants and the Environment 4

ENVS 477 – Principles of Ecotoxicology 3

IMB 401 – Medical Microbiology & Immunology 4

MATH 363 – Intro. to Statistical Methods 3

MCB 304 – Molecular Genetics 4-5

MCB 325 – The Biology of Cancer 3-4

MCB 340 – Intro. to Biotechnology 3

MCB 410 – Cell Biology 3-4**MCB 411 – Molecular Biology** 3-4

MCB 416A – Bioinformatics & Functional Genomic Analysis 3

MCB 425 – Cancer Discoveries 3

MCB 480 – Intro. to Systems Biology 3

MIC 328R – Microbial Physiology 3

MIC 419 – Immunology 4

MIC 452 – Antibiotics – A Biological Perspective 3

NSC 408 – Nutritional Biology 3**NSC 475 – Nutrigenomics for Study of Disease** 3**NROS/NSCS 307 – Cellular Neurophysiology** 3-4**NROS/NSCS 310 – Molecular & Cellular Biology of Neurons** 3-4

NROS 430 – Neurogenetics 3

PCOL 320 – Toxicology 3

PCOL 410 – Medicinal Chemistry 4

PHCL 412 – Intro. to Pharmacology 3

PHCL 445 – Drugs of Abuse 3

PHS 431 – Molecular Biophysics 3

PLP 428R – Microbial Genetics 3

PLS 312 – Animal & Plant Genetics 4

PLS 340 – Intro. to Biotechnology 3

PLS 359 – Plant Cell Structure & Function 3

PLS 360 – Plant Growth & Physiology 3

PLS 448A – Plant Biochemistry & Metabolic Engineering 3

PSIO 380 – Fundamentals of Human Physiology 4

PSIO 404 – Advanced Topics in Cellular Physiology 3

PSIO 420 – Exercise and Environmental Physiology 3

PSIO 431 – Physiology of the Immune System 3

PSIO 484 – Cardiovascular Muscle Biology & Disease 3

PSIO 465 – Neurophysiology 3

CHEM 405A – Basic Lab Safety 1

CHEM 405B – Advanced Lab Safety 1

CHEM 405C – Chemical Hygiene & Regulations 1