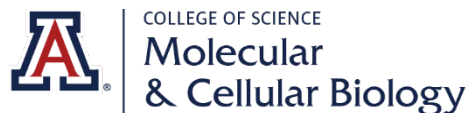


MINOR
Genetics & Genomics
CATALOG YEAR 2026-2027



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: 18
- Upper division units required: 9
- Minimum GPA required for graduation: 2.0

Applicable Coursework

Minor Core (Required-8 units)

- ____ **MCB 181R** Introduction to Molecular and Cellular Biology (3 units)
- ____ **MCB 195B** Genomic Medicine Colloquium **OR** **MCB 295E** Genetics, Ancestry, And Race (1 unit)
- ____ **MCB 304** Molecular Genetics (4 units)

Life Science Electives (10 units) *Complete any combination of 300-400 level courses from the list below or as pre-approved by a MCB advisor to make up the rest of the minor:*

- ____ MCB 397D (3) Molecular Genetics of Plants CURE
- ____ MCB 422 (3) Problem Solving with Genetic Tools
- ____ MCB 473 (4) recombinant DNA Methods and Applications
- ____ MCB 416A (3) Bioinformatics & Functional Genomic Analysis
- ____ MCB 442 (3) Human Genetics: Sex, Crime and Disease
- ____ MCB 447 (3) Big Data in Biology and Medicine
- ____ MCB 480 (3) Intro to Systems Biology
- ____ MCB 482 (3) Modeling Human Disease
- ____ ECOL 223 (3) Human Genetics and Evolution
- ____ ECOL 326 (3) Genomics
- ____ ECOL 426 (3) Population Genetics
- ____ PLS 312 (4) Animal & Plant Genetics
- ____ PLS 340 (3) Intro to Biotechnology
- ____ PLS 340L (2) Intro to Biotechnology Laboratory
- ____ PLS 428R (3) Microbial Genetics
- ____ PLS 428L (2) Microbial Genetics Laboratory
- ____ PLS 449A (3) Plant Genetics and Genomics
- ____ NROS 430 (3) Neurogenetics
- ____ WFSC 430 (3) Conservation Genetics
- ____ WFSC 430L (1) Conservation Genetics Laboratory

For Genetics-focused research, to be approved by MCB Advisor:

- ____ MCB 399/499 (1-5) Independent Study
- ____ MCB 399H/499H (1-5) Honors Independent Study
- ____ MCB 392/492 (1-5) Directed Research
- ____ MCB 498 (3) Senior Capstone
- ____ MCB 498H (3) Honors Thesis

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