

MINOR in Molecular and Cellular Biology

CATALOG YEAR 2024-2025



COLLEGE OF SCIENCE
**Molecular
& Cellular Biology**

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

Applicable Coursework

Introductory Biology

____ MCB 181R ____ MCB 181L ____ ECOL 182R ____ ECOL 182L

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

____ MCB 301 (4-5) The Molecular Basis of Life	____ MIC 403R (3) Biology of Animal Parasites
____ MCB 304 (4-5) Molecular Genetics	____ MIC 420 (4) Pathogenic Bacteriology
____ MCB 305 (4-5) Cell & Developmental Biology	____ MIC 421B (3) Microbiological Lab Techniques
____ MCB 315 (3) Quantitative Biology	____ MIC 433 (3) Medical and Molecular Virology
____ MCB 325 (3-4) The Biology of Cancer	____ MIC 452 (3) Antibiotics – A Biological Perspective
____ MCB 340 (3) Introduction to Biotechnology	____ NROS 307 (3) Cellular Neurophysiology
____ MCB 396i (2) Career Exploration and Career Development	____ NROS 430 (3) Neurogenetics
____ MCB 410 (3) Cell Biology	____ PLS 340 (3) Intro. to Biotechnology
____ MCB 411 (3) Molecular Biology	____ PLS 424R (3) Plant Biotechnology
____ MCB 416A (3) Bioinformatics & Functional Genomic Analysis	____ PLS 428R (3) Microbial Genetics
____ MCB 422 (3) Problem Solving with Genetic Tools	____ PLS 360 (3) Plant Growth and Physiology
____ MCB 425 (3) Cancer Discoveries	____ PLS 448a (3) Plant Biochemistry and Metabolic Engineering
____ MCB 442 (3) Human Genetics: Sex, Crime and Disease	____ PSIO 465 (3) Neurophysiology
____ MCB 447 (3) Big Data in Biology and Medicine	____ PSIO 467 (3) Endocrine Physiology
____ MCB 480 (3) Intro to Systems Biology	____ PSIO 484 (3) Cardiovascular Muscle Biology & Disease
____ MCB 391/491 (3) Lab Preceptorship	____ CMM 479 (3) The Art of Scientific Discovery
____ MCB 497A (3) Special Tutoring Workshop	____ BIOC 384 (3) Foundations in Biochemistry
____ MCB 399/499/399H/499H (1-5) Independent Study	____ BIOC 385 (3) Metabolic Biochemistry
____ MCB 392/492 (1-5) Directed Research	____ BIOC 462A (3) Biochemistry I
____ MCB 498/498H (3) Capstone or Honors Thesis	
____ ECOL 326 (3) Genomics	
____ ECOL 346 (3) Bioinformatics	
____ ECOL 379 (3) Evidence Based Medicine	

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