BIOLOGY ELECTIVES

Fall

Courses in **BOLD** satisfy the **WRITING EMPHASIS** requirement. Courses marked with * satisfy the ***LAB COMPONENT**. Courses marked with ^ satisfy the **^FIELD COMPONENT**. Students may only use a course once within their major electives.

PHYSIOLOGY

ACBS 315L - Physiology of Reproduction Laboratory *
ACBS 315R - Physiology of Reproduction
ACBS 400A - Animal Anatomy and Physiology A
ECOL 340 - Evolution of Plant Form and Function
ENTO 432 - Comparative Immunology
IMB 406 - Human Immunology
MIC 350 - Core Concepts in Molecular Microbiology
NROS 307 - Cellular Neurophysiology
NROS 420 - Neuroscience of Survival
PLS 440 - Mechanisms in Plant Development
PSIO 201 - Human Anatomy & Physiology I*
PSIO 202 - Human Anatomy & Physiology II *
PSIO 303 - Integrative Cellular Physiology
PSIO 380 - Fundamentals of Human Physiology
PSIO 420 - Exercise and Environmental Physiology
PSIO 431 - Physiology of the Immune System
PSIO 467 - Endocrine Physiology
PSIO 485 - Cardiovascular Physiology

Courses in the PSIO department are reserved for majors only. Please contact the PSIO department to determine if seats are available to non-majors.

PSIO 201 & 202 are only available to students in the BS Biology-Biomedical Sciences subplan. Both courses must be taken to satisfy the Physiology and Lab requirements for this track.

CELL & MOLECULAR BIOLOGY

ACBS 423 - Mechanisms of Disease
ECOL 326 - Genomics
ECOL 345 - Biodiversity and the Tree of Life
ECOL 465 - Phylogenetic Biology
ENTO 432 - Comparative Immunology
ENVS 477 - Principles of Ecotoxicology ^
IMB 401 - Medical Microbiology and Immunology
MCB 325 - The Biology of Cancer
MCB 410 - Cell Biology
MCB 422 - Problem Solving with Genetic Tools *
MCB 480 - Introduction to Systems Biology
MIC 350 - Core Concepts in Molecular Microbiology
MIC 420 - Pathogenic Bacteriology
MIC 452 - Antibiotics - A Biological Perspective
NROS 307 - Cellular Neurophysiology
NROS 412 - Molecular Mechanisms of Learning and Memory
PLP 427R - General Mycology
PLS 440 - Mechanisms in Plant Development
PLS 448A - Plant Biochemistry and Metabolic Engineering
PSIO 303 - Integrative Cellular Physiology

GENETICS

ECOL 326 - Genomics
ECOL 345 - Biodiversity and the Tree of Life
MCB 422 - Problem Solving with Genetic Tools *
MIC 452 - Antibiotics - A Biological Perspective
PLS 340 - Introduction to Biotechnology
PLS 440 - Mechanisms in Plant Development

BIOLOGY OF ORGANISMS

MICROORGANISMAL

ACBS 423 - Mechanisms of Disease
ACBS 449 - Diseases of Wildlife
ECOL 409 - Evolution of Infectious Disease
ECOL 427 - Ecology and Evolution of the Mammalian Microbiome
ENTO 432 - Comparative Immunology
ENVS 410 - Microbial Biogeochemistry and Global Change
ENVS 425 - Environmental Microbiology
ENVS 426 - Environmental Microbiology Laboratory *
IMB 401 - Medical Microbiology and Immunology
IMB 402 - Medical Microbiology Basics
IMB 404 - Medical Virology Basics
IMB 406 - Human Immunology
MCB 437 - Life in Extreme Environments
MIC 420 - Pathogenic Bacteriology
MIC 421B - Microbiological Techniques *
PLP 305 - Introductory Plant Pathology
PLP 329A - Microbial Diversity
PLP 427R - General Mycology
PLS 333 - General Virology
PLS 448A - Plant Biochemistry and Metabolic Engineering

MACROORGANISMAL

ACBS 315L - Physiology of Reproduction Laboratory *
ACBS 315R - Physiology of Reproduction
ACBS 400A - Animal Anatomy and Physiology A
ANTH 472 - Zooarchaeology and Taphonomy *
ECOL 340 - Evolution of Plant Form and Function
ECOL 404R - Biology of the Oceans ^
ECOL 485 - Mammalogy ^ *
ECOL 487L - Animal Behavior Lab *
ECOL 487R - Animal Behavior
ENTO 415R - Insect Biology
ENVS 474 - Aquatic Plants and the Environment
MATH 481 - Mathematical modeling of fluid flow through and around organs and organisms
NROS 420 - Neuroscience of Survival
PSIO 467 - Endocrine Physiology

BIOLOGY ELECTIVES

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ECOLOGY, EVOLUTION, & BEHAVIOR

BS Biology-Organismal Biology track only

ANTH 307 - Ecological Anthropology
ANTH 364 - Natural History of Our Closest Relatives
ANTH 359- Darwinian Medicine
ANTH 470 - Primate Sexuality
ANTH 472- Zooarchaeology and Taphonomy *
ECOL 326- Genomics c
ECOL 340 - Evolution of Plant Form and Function
ECOL 345- Biodiversity and the Tree of Life
ECOL 404R - Biology of the Oceans
ECOL 409- Evolution of Infectious Disease
ECOL 427 - Ecology and Evolution of the Mammalian Microbiome
ECOL 450 - Marine Discovery ^ *
ECOL 487L- Animal Behavior Lab *
ECOL 487R - Animal Behavior
ENTO 415R- Insect Biology
ENTO 432 - Comparative Immunology
ENVS 474- Aquatic Plants and the Environment
ENVS 477- Principles of Ecotoxicology ^
GEOS 330- Introduction to Remote Sensing
GEOS 478- Global Change
NROS 420- Neuroscience of Survival
PLP 305 - Introductory Plant Pathology
PLP 329A- Microbial Diversity
RNR 316- Natural Resources Ecology
RNR 417- Geographic Information Systems for Natural and Social Sciences
RNR 433- Forest Ecology
WFSC 385- Zoo and Aquarium Conservation
WFSC 442 – Limnology *
WFSC 444 - Wildlife Ecology, Conservation, and Management
WSM 452- Climate Change and Dryland Ecosystem Ecology

SCIENCE & SOCIETY

BS Biology-Biomedical Sciences track only

ANTH 307 - Ecological Anthropology
ANTH 364 - Natural History of Our Closest Relatives
ANTH 369 - Darwinian Medicine
CHS 421 - Sociology of Drugs and Addiction
ECOL 409 - Evolution of Infectious Disease
ECOL 450 - Marine Discovery ^ *
EPID 309 - Introduction to Epidemiology
HPS 306 - Drugs and Society
HPS 387 - Health Disparities & Minority Health
MAS 425 - Latino Health Disparities
MCB 404 - Bioethics
PCOL 305 - Scientific Writing for Health Science Students
PCOL 320 - What's Your Poison? Toxicology of Substances that Surround Us
PHIL 321 - Medical Ethics
PHIL 323 - Environmental Ethics
PHIL 347 - Neuroethics
PHP 305 - Population Health in the Digital Age
PHP 308 - Community Health Education for Disease Outbreaks
SOC 410 - The Hospital as a Small Society: The Social Organization of Medicine