



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

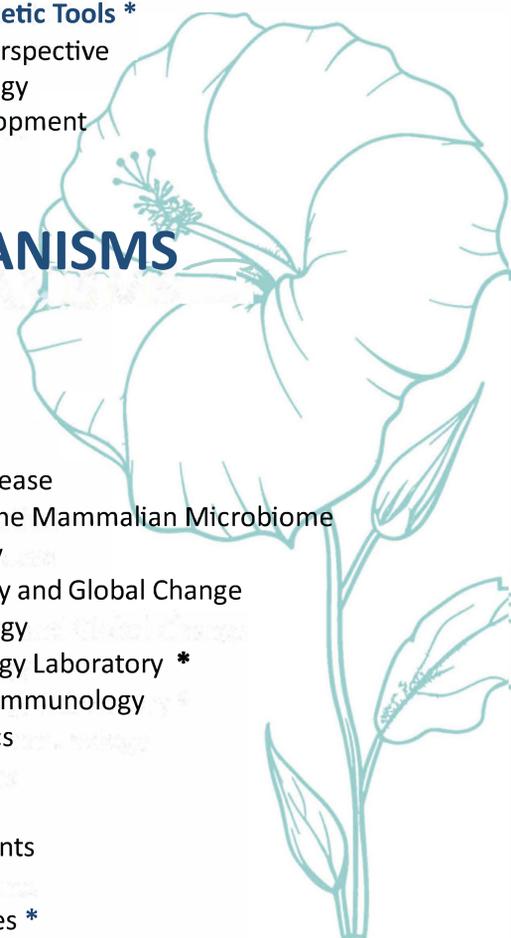
BIOLOGY OF ORGANISMS

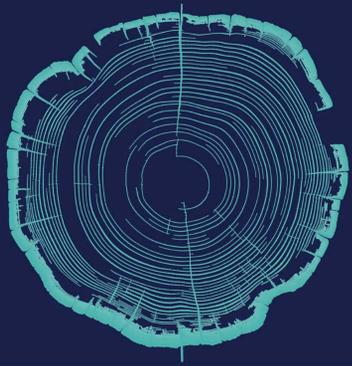
MICROORGANISMAL

- 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

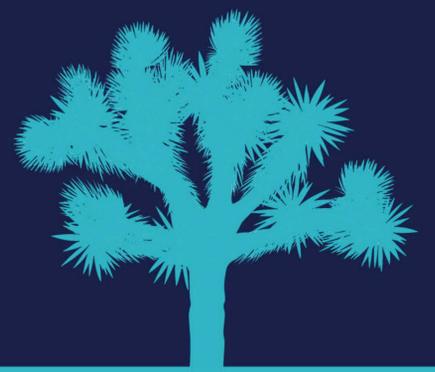
- ACBS 315L - Physiology of Reproduction Laboratory *
- ACBS 315R - Physiology of Reproduction
- ACBS 400A - Animal Anatomy and Physiology A
- ANTH 472 - Zooarchaeology and Taphonomy *
- ECOL 340 - Evolution of Plant Form and Function**
- ECOL 404R - Biology of the Oceans ^**
- ECOL 485 - Mammalogy ^ *
- 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 organisms and organisms**
- NROS 420 - Neuroscience of Survival
- PSIO 467 - Endocrine Physiology





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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

