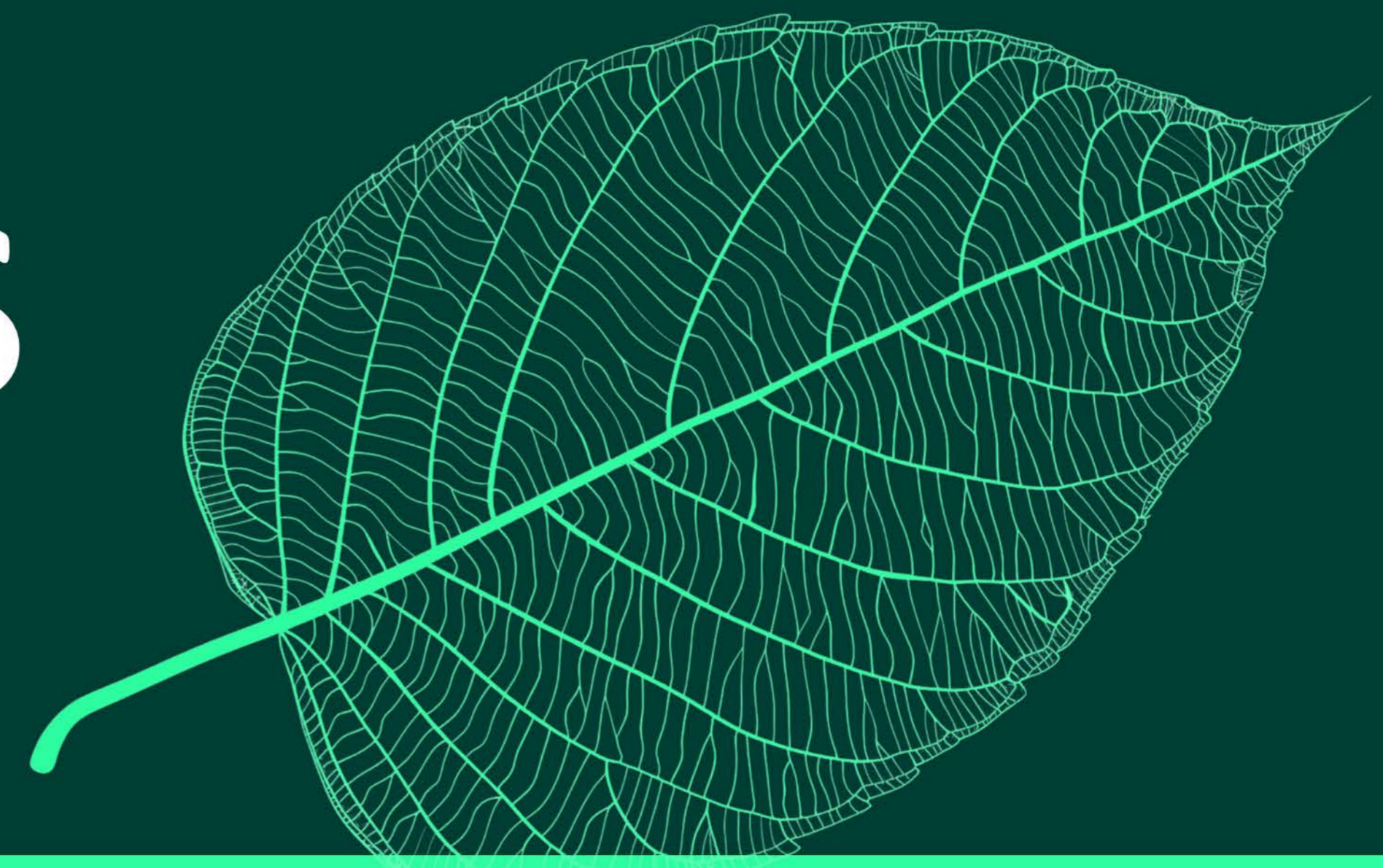




BIOLOGY ELECTIVES

Spring



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 400B - Animal Anatomy and Physiology
ACBS 401L - Domestic Animal Anatomy & Physiology Laboratory *
ANTH 431 - Primate Sexuality
ECOL 330 - Evolution of Animal Form and Function
ECOL 437 - Vertebrate Physiology *
IMB 406 - Human Immunology
MIC 328R - Microbial Physiology
NROS 307 - Cellular Neurophysiology
NROS 420 - Neuroscience of Survival
PLS 360 - Plant Growth and Physiology
PLS 361 - Principles of Plant Physiology Laboratory *
PSIO 201 - Human Anatomy & Physiology I *
PSIO 202 - Human Anatomy & Physiology II *
PSIO 380 - Fundamentals of Human Physiology
PSIO 404 - Advanced Topics in Cellular Physiology
PSIO 420 - Exercise and Environmental Physiology
PSIO 425 - Measurement and Evaluation of Physiological Function *
PSIO 431 - Physiology of the Immune System
PSIO 450 - Respiratory Physiology
PSIO 469 - Human Reproductive Physiology
PSIO 484 - Cardiovascular Muscle Biology and Disease

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 433 - Medical and Molecular Virology
ECOL 345 - Biodiversity and the Tree of Life
ECOL 496G - Complex Systems: Networks & Self-organization in Biology
ENVS 477 - Principles of Ecotoxicology ^
IMB 401 - Medical Microbiology and Immunology
MCB 305 - Cell and Developmental Biology
MCB 411 - Molecular Biology
MCB 416A - Bioinformatics and Functional Genomic Analysis
MCB 473 - Recombinant DNA Methods and Applications *
NROS 307 - Cellular Neurophysiology
NROS 310 - Molecular and Cellular Biology of Neurons
NROS 412 - Molecular Mechanisms of Learning and Memory
NROS 430 - Neurogenetics
PLP 428L - Microbial Genetics Laboratory *
PLP 428R - Microbial Genetics
PSIO 404 - Advanced Topics in Cellular Physiology
PSIO 484 - Cardiovascular Muscle Biology and Disease

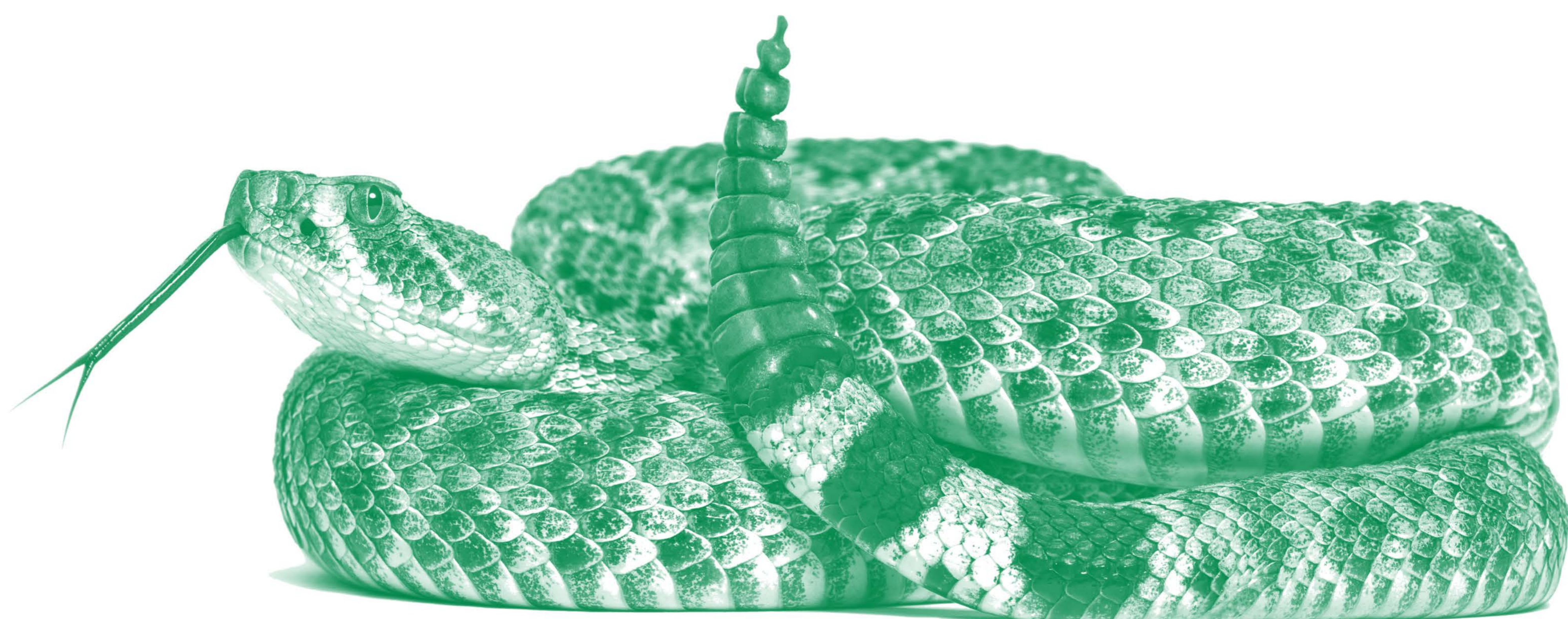
GENETICS

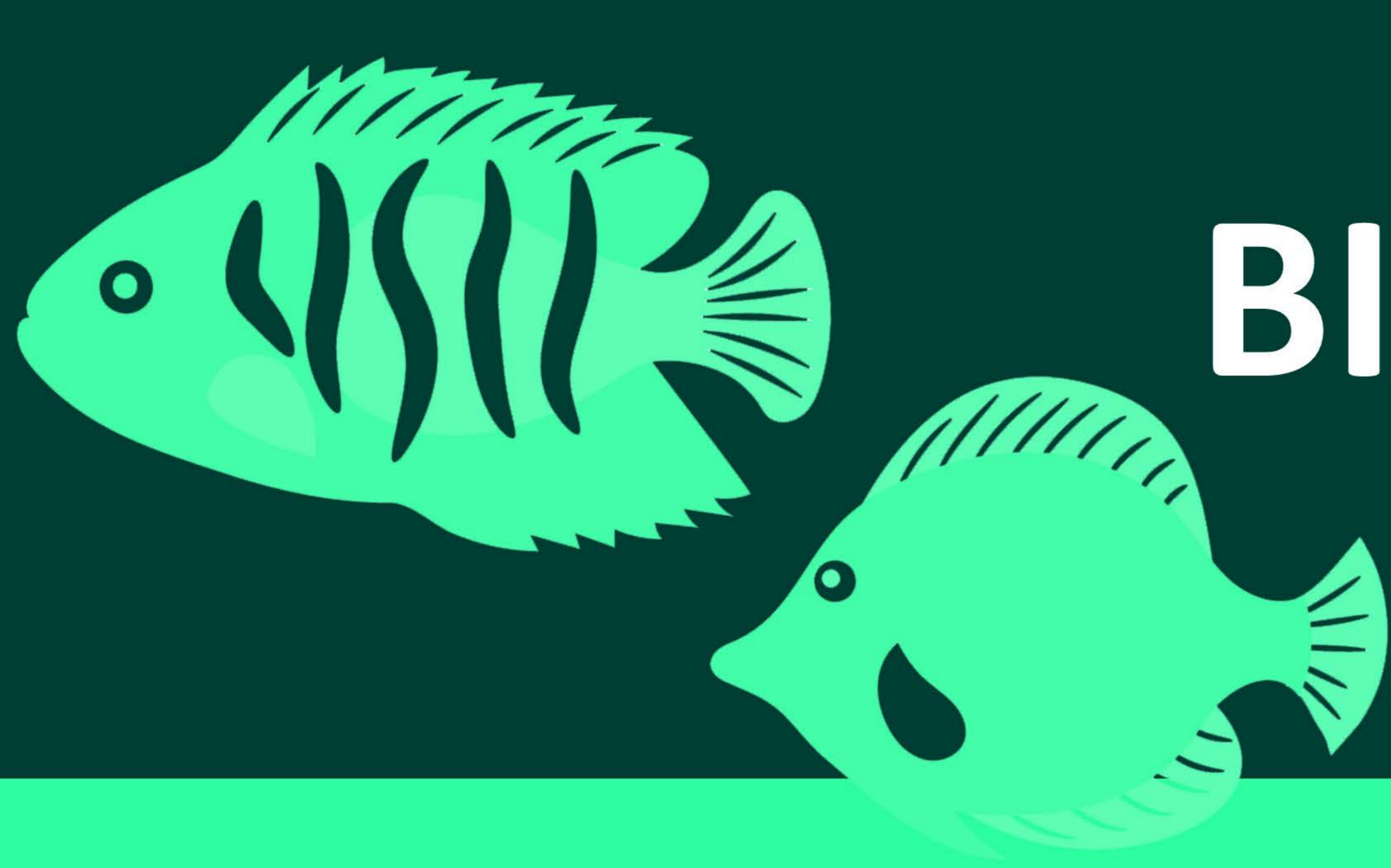
ECOL 345 - Biodiversity and the Tree of Life
ECOL 346 - Bioinformatics *
ECOL 426 - Population Genetics
ECOL 480 - Mathematical Models in Biology
ECOL 496G - Complex Systems: Networks & Self-organization in Biology
MCB 416A - Bioinformatics and Functional Genomic Analysis
MCB 473 - Recombinant DNA Methods and Applications *
NROS 430 - Neurogenetics
PLP 428L - Microbial Genetics Laboratory *
PLP 428R - Microbial Genetics
PLS 312 - Animal and Plant Genetics *
PLS 340 - Introduction to Biotechnology
PLS 340L - Biotechnology Laboratory *
PLS 440 - Mechanisms in Plant Development
PLS 449A - Plant Genetics and Genomics

SCIENCE & SOCIETY

BS Biology-Biomedical Sciences track only

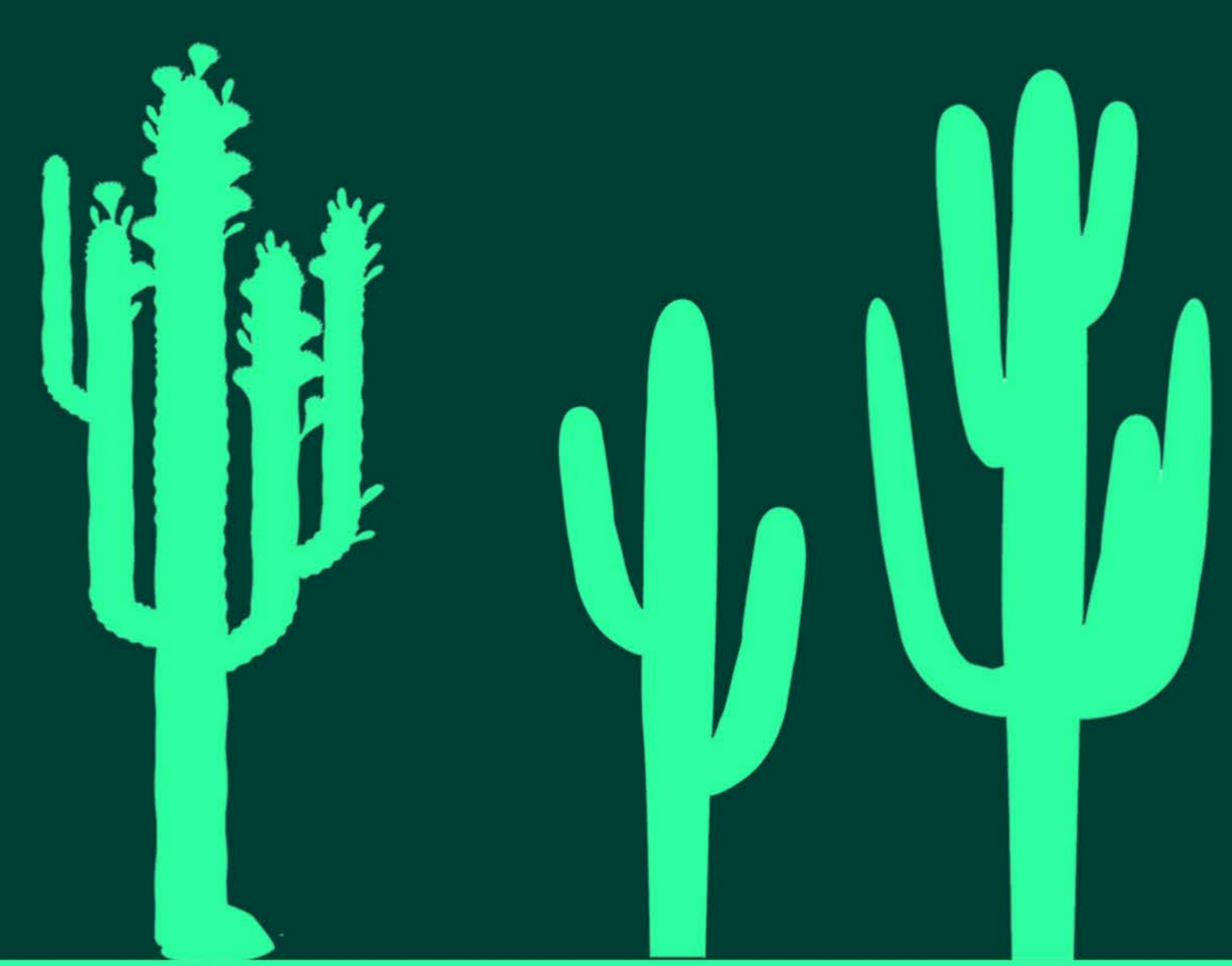
CHS 421 - Sociology of Drugs and Addiction
ECOL 360 - Marine Ecology & Conservation
ECOL 406R - Conservation Biology
ECOL 409 - Evolution of Infectious Disease
ENTO 407 - Insect Discovery *
ENTO 457 - Medical-Veterinary Entomology
EPID 309 - Introduction to Epidemiology
HIST 311 - History of Epidemics
HPS 306 - Drugs and Society
HPS 387 - Health Disparities & Minority Health
LAW 459 - Public International Environmental Law
MAS 405 - Traditional Indian Medicine: Health, Healing and Well Being
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





BIOLOGY ELECTIVES

Spring



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BIOLOGY OF ORGANISMS

MICROORGANISMAL

ACBS 403R - Biology of Animal Parasites
ACBS 406 - Diseases of Companion Animals
ACBS 433 - Medical and Molecular Virology
ECOL 409 - Evolution of Infectious Disease
ECOL 427 - Ecology and Evolution of the Mammalian Microbiome
ENTO 457 - Medical-Veterinary Entomology
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 328R - Microbial Physiology
PLP 320 - Microbiomes
PLP 428L - Microbial Genetics Laboratory *
PLP 428R - Microbial Genetics
WFSC 453 - Wildlife and Zoonotic Disease Ecology

MACROORGANISMAL

ACBS 400B - Animal Anatomy and Physiology
ACBS 401L - Domestic Animal Anatomy & Physiology Laboratory *
ACBS 443 - Research Animal Methods *
ACBS 456 - Aquaculture
ANTH 472 - Zooarchaeology and Taphonomy: Laboratory Methods *
ECOL 330 - Evolution of Animal Form and Function
ECOL 404R - Biology of the Oceans
ECOL 437 - Vertebrate Physiology *
ECOL 483 - Herpetology ^ *
ECOL 484 - Ornithology ^ *
ECOL 488 - Arizona Mammals ^ *
ECOL 496G - Complex Systems: Networks & Self-organization in Biology
ENTO 405 - Aquatic Entomology *
ENTO 407 - Insect Discovery *
ENVS 475 - Freshwater and Marine Algae ^ *
NROS 381 - Animal Brains, Signals, Sex, and Social Behaviors
NROS 420 - Neuroscience of Survival
PLS 360 - Plant Growth and Physiology
PLS 361 - Principles of Plant Physiology Laboratory *

ECOLOGY, EVOLUTION, & BEHAVIOR

BS Biology-Organismal Biology track only

ANTH 431 - Primate Sexuality
ANTH 472 - Zooarchaeology and Taphonomy: Laboratory Methods *
ANTH 495D - Special Topics in Biological Anthropology
ECOL 330 - Evolution of Animal Form and Function
ECOL 345 - Biodiversity and the Tree of Life
ECOL 360 - Marine Ecology & Conservation
ECOL 404R - Biology of the Oceans
ECOL 406R - Conservation Biology
ECOL 409 - Evolution of Infectious Disease
ECOL 426 - Population Genetics
ECOL 427 - Ecology and Evolution of the Mammalian Microbiome
ECOL 473 - Topics in Behavioral Ecology
ECOL 480 - Mathematical Models in Biology
ECOL 488 - Arizona Mammals ^ *
ECOL 496G - Complex Systems: Networks & Self-organization in Biology
ENTO 405 - Aquatic Entomology *
ENTO 407 - Insect Discovery *
ENVS 475 - Freshwater and Marine Algae ^ *
ENVS 477 - Principles of Ecotoxicology ^
GEOS 308 - Paleontology
GEOS 330 - Introduction to Remote Sensing
GEOS 497C - Dendrochronology
MCB 437 - Life in Extreme Environments
NROS 381 - Animal Brains, Signals, Sex, and Social Behaviors
NROS 420 - Neuroscience of Survival
RNR 316 - Natural Resources Ecology
RNR 355 - Introduction to Wildland Fire
RNR 417 - Geographic Information Systems for Natural and Social Sciences
WFSC 445 - Population Ecology *
WFSC 453 - Wildlife and Zoonotic Disease Ecology

