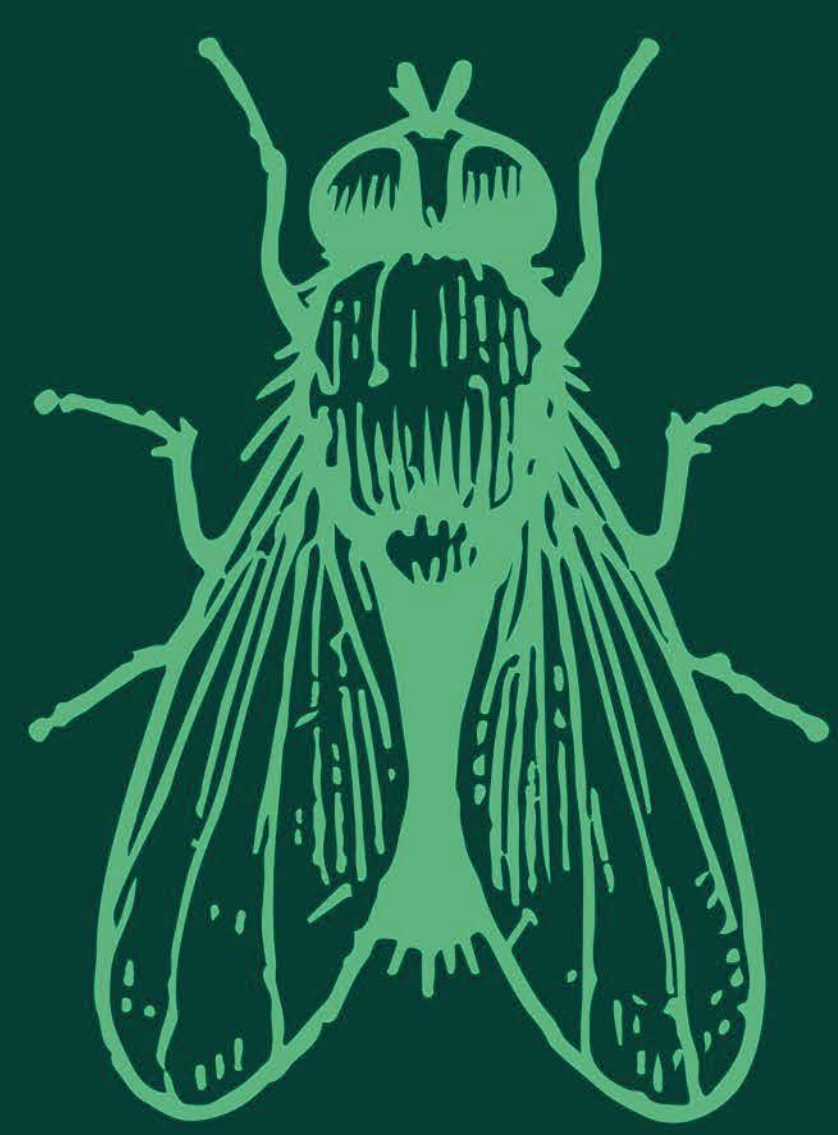
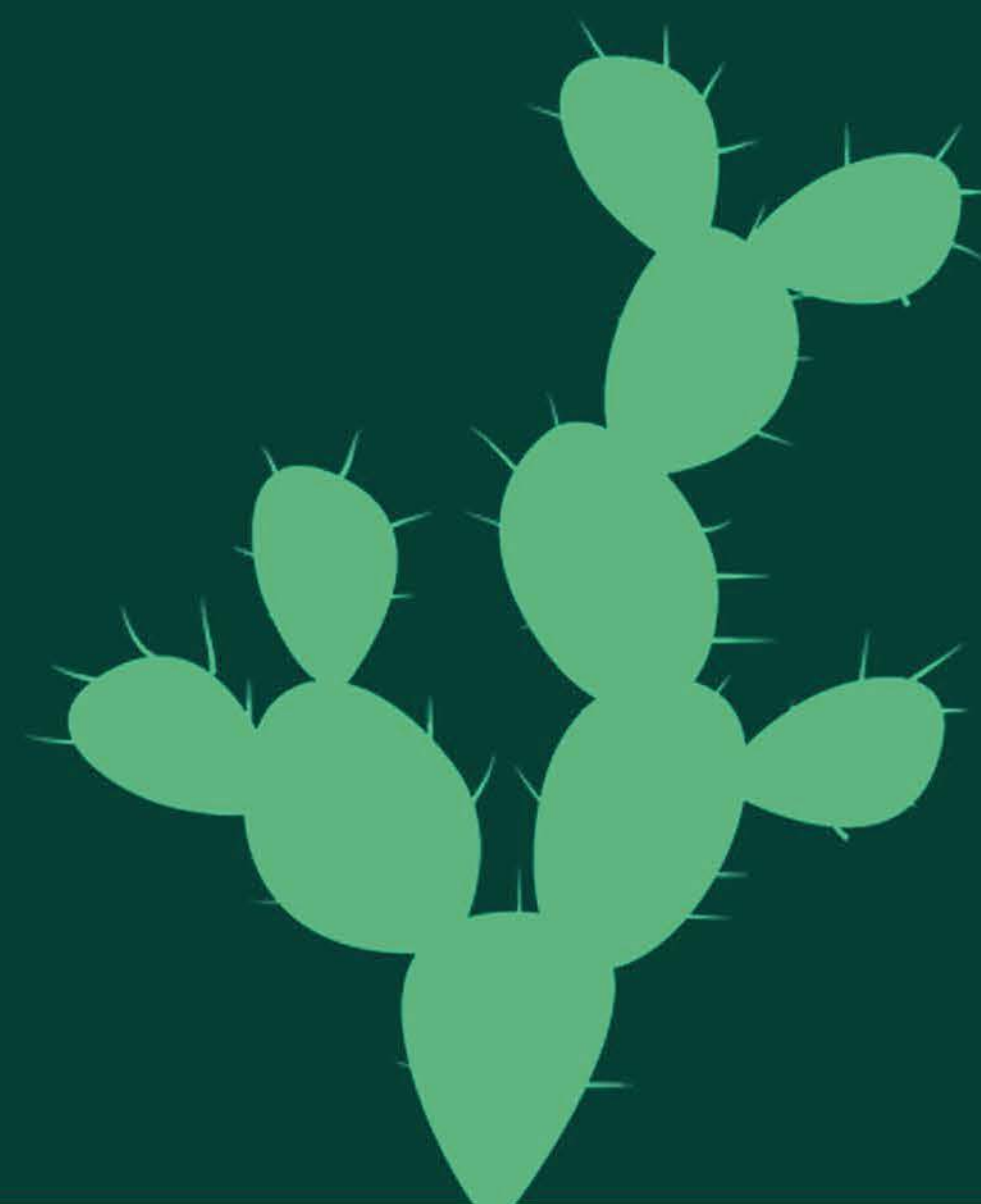




BIOINFORMATICS ELECTIVES

Spring



Courses in **BOLD** satisfy the **WRITING EMPHASIS** requirement. Students may only use a course once within their major electives.

CELL & MOLECULAR BIOLOGY

ACBS 433 - Medical and Molecular Virology
ECOL 323 - Human Genetics & Evolution
ECOL 345 - Biodiversity and the Tree of Life
MCB 305 - Cell and Developmental Biology
MCB 411 - Molecular Biology
MCB 416A - Bioinformatics and Functional Genomic Analysis
MCB 422 - Problem Solving & Genetic Tools
MIC 419 - Immunology
MCB 473 - Recombinant DNA Methods and Applications
NROS 310 - Molecular and Cellular Biology of Neurons
PLS 359 - Plant Cell Structure and Function
PLS 440 - Mechanisms in Plant Development
PSIO 404 - Advanced Topics in Cellular Physiology
PSIO 484 - Cardiovascular Muscle Biology and Disease

GENETICS

ECOL 323 - Human Genetics & Evolution
ECOL 345 - Biodiversity and the Tree of Life
ECOL 346 - Bioinformatics
ECOL 426 - Population Genetics
MCB 416A - Bioinformatics and Functional Genomic Analysis
MCB 422 - Problem Solving & Genetic Tools*
MCB 473 - Recombinant DNA Methods and Applications
PLS 312 - Animal and Plant Genetics
PLS 340 - Introduction to Biotechnology
PLS 440 - Mechanisms in Plant Development
PLS 449A - Plant Genetics and Genomics
WFSC 430 - Conversation Genetics

PHYSICAL SCIENCE

ATMO 460 - Bioclimate
ENVS 200 - Introduction to Soil Science
ENVS 20I - Soils Laboratory
ENVS 275 - Data analysis for life and environmental sciences
ENVS 376 - Principles of Ecological Climatology
GEOS 212 - Introduction to Oceanography
GEOS 25I - Physical Geology
GEOS 308 - Paleontology
GEOS 412A - Ocean Sciences
GEOS 412B - Ocean Sciences Field Course
GEOS 479 - Introduction to Climate Dynamics
REM 490 - Remote Sensing for the Study of Planet Earth
RNR 403 - Applications of Geographic Information Systems
RNR 417 - Geographic Information Systems for Natural and Social Sciences
RNR 458 - Ecosystem Ecology and a Sustainable Future

SCIENCE & SOCIETY

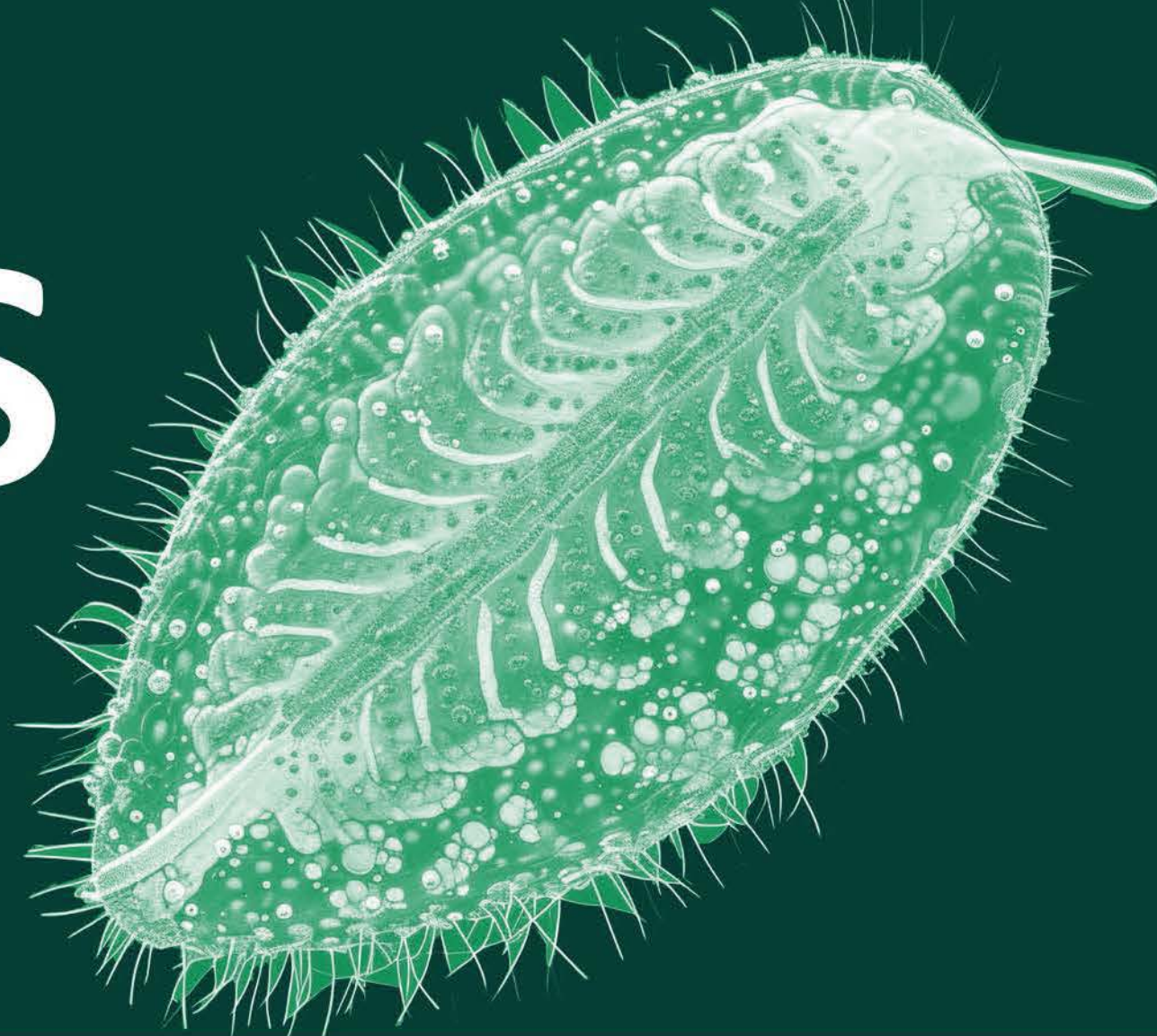
CHS 421 - Sociology of Drugs and Addiction
ECOL 360 - Marine Ecology & Conservation
ECOL 406R - Conservation Biology
ECOL 409 - Evolution of Infectious Disease
ENTO 407 - Insect Discovery
ENTO 457 - Medical-Veterinary Entomology
EPID 309 - Introduction to Epidemiology
HIST 311 - History of Epidemics
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 308 - Community Health Education for Disease Outbreaks





BIOINFORMATICS ELECTIVES

Spring



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ORGANISMAL BIOLOGY

- ACBS 400B - Animal Anatomy and Physiology
- ACBS 401L - Domestic Animal Anatomy & Physiology Laboratory
- ACBS 403R - Biology of Animal Parasites
- ACBS 406 - Diseases of Companion Animals
- ACBS 433 - Medical and Molecular Virology
- ACBS 443 - Research Animal Methods
- ACBS 456 - Aquaculture
- ECOL 330 - Evolution of Animal Form and Function**
- ECOL 409 - Evolution of Infectious Disease
- ECOL 437 - Vertebrate Physiology**
- ECOL 484 - Ornithology * ^**
- ENTO 407 - Insect Discovery
- ENTO 457 - Medical-Veterinary Entomology
- ENVS 425 - Environmental Microbiology
- ENVS 475 - Freshwater and Marine Algae**
- IMB 402 - Medical Microbiology Basics
- IMB 404 - Medical Virology Basics
- IMB 406 - Human Immunology
- MIC 328R - Microbial Physiology
- NROS 381 - Animal Brains, Signals, Sex, and Social Behaviors**
- PLP 320 - Microbiomes
- PLS 360 - Plant Growth and Physiology
- PLS 361 - Principles of Plant Physiology Laboratory

ECOLOGY, EVOLUTION, & BEHAVIOR

- ANTH 431 - Primate Sexuality
- ECOL 323 - Human Genetics & Evolution
- ECOL 330 - Evolution of Animal Form and Function**
- ECOL 345 - Biodiversity and the Tree of Life
- ECOL 360 - Marine Ecology & Conservation
- ECOL 406R - Conservation Biology
- ECOL 409 - Evolution of Infectious Disease
- ECOL 426 - Population Genetics
- ENTO 407 - Insect Discovery
- ENVS 475 - Freshwater and Marine Algae**
- GEOS 308 - Paleontology
- GEOS 497C - Dendrochronology
- NROS 381 - Animal Brains, Signals, Sex, and Social Behaviors**
- 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

BIOINFORMATICS

- BE 434 - Biosystems Analytics
- BIOC 384 - Fundamentals of Biochemistry
- BIOC 385 - Metabolic Biochemistry
- GAME 310 - Gamification in Society
- GAME 452 - Advanced Game Development
- GEOG 470 - Geo-Databases
- ISTA 321 - Data Mining and Discovery
- ISTA 322 - Data Engineering
- ISTA 350 - Programming for Informatics Applications
- ISTA 410 - Bayesian Modeling and Inference
- ISTA 421 - Introduction to Machine Learning

