

# EEB & Biology Major Electives

## Fall 2017



While some courses may be listed in multiple elective categories below, students may only use a course once within their major electives.

Courses in **BOLD** satisfy the Writing Emphasis requirement of the EEB & Biology degrees.

Courses marked with \* have an online option listed.

### Ecology, Evolution & Behavior

- ANTH 364– Natural History of Our Closest Relatives
- ANTH 468– Human Osteology
- ANTH 470– Primate Behavior
- ANTH 472– Zooarchaeology & Taphonomy Lab methods
- ECOL 326– Genomics
- ECOL 340– Evolution Of Plant Form & Function**
- ECOL 418– Spatio-Temporal Ecology
- ECOL 419– Intro to Modeling in Biology
- ECOL 430– Conservation Genetics
- ECOL 449B– Discovering Evolution
- ECOL 450– Marine Discovery
- ECOL 474– Aquatic Plants & the Environment
- ECOL 487 R & L– Animal Behavior**
- ECOL 496J– Plant Population Ecology
- ENTO 310– Living in Symbiosis
- ENTO 415R – Insect Biology
- GEOG 438– Biogeography
- GEOS 308– Paleontology
- GEOS 439A– Intro to Dendrochronology
- GEOS 478– Global Change
- PLP 305– Introductory Plant Pathology \*
- PLP 329A– Microbial Diversity \*
- RNR 316– Natural Resource Ecology
- WFSC 430L– Conservation Genetics Lab
- WSM 452– Dryland Ecohydrology and Vegetation Dynamics



### Organismal

#### Macro-

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|---|------------------------------|
| ACBS 400A– Animal Anat. & Physio.                 | ECOL 474– Aquatic Plants     |
| ACBS 315R & L– PSIO of Animal Repro.              | <b>ECOL 482– Ichthyology</b> |
| ACBS 443– Research Animal Methods                 | <b>ECOL 485– Mammalogy</b>   |
| ENTO 310– Living in Symbiosis                     | ENTO 415R– Insect Biology    |
| <b>ECOL 340– Evol. of Plant Form &amp; Funct.</b> | ACBS 443– Research Animal    |
| <b>ECOL 487 R &amp; L– Animal Behavior</b>        | Methods                      |
| ECOL 496J– Plant Population Ecology               | ANTH 472– Zooarchaeology     |
|   | & Taphonomy Lab methods      |

#### Micro-

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|---|--|
| ACBS 449– Diseases of Wildlife          | PLP 305– Plant Pathology                       |
| MIC 421B– Microbial Techniques          | PLP 329A– Microbial Diversity *                |
| MIC 425&426– Environmental Microbiology | PLS 448A– Plant Biochem/ Metabolic Engineering |
| PLP 427R&L– General Mycology *          |  |

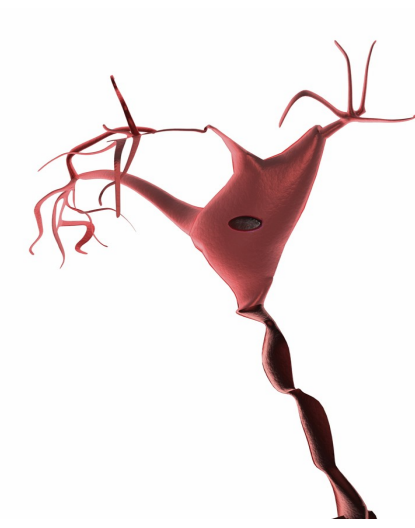
### Physiology



- ACBS 400A– Animal Anatomy & Physiology
- ACBS 315R & L– Physiology of Animal Reproduction
- ECOL 340– Evolution of Plant Form & Function**
- NROS 307– Cellular Neurophysiology
- PSIO 303A– Integrative Cellular Physiology
- PSIO 420– Exercise & Environmental Psio
- PSIO 425– Measurement & Evaluation of Psio Function
- PSIO 431– Physiology of the Immune System
- PSIO 467– Endocrine Physiology
- PSIO 472– Quantitative Modeling of Biological Systems
- PSIO 485– Cardiovascular Psio

Please be aware that PSIO courses have prerequisites which are strictly enforced, if you plan to take one of these courses you must meet those requirements & email that department at [bertha@email.arizona.edu](mailto:bertha@email.arizona.edu).

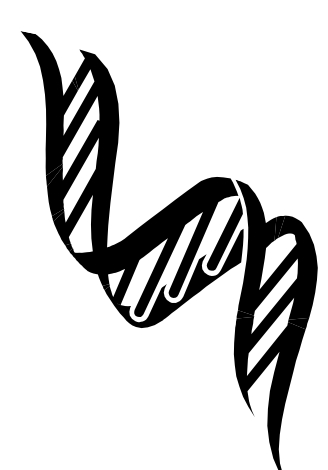
### Cell & Molecular Biology



- MIC 452– Antibiotics: Biological Perspective
- MCB 325– Biology of Cancer
- NROS 307– Cellular Physiology
- NROS 412– Learning and Memory
- PSIO 303A– Integrative Cellular Physiology
- PSIO 472– Quant. Models of Biological Systems
- PLP 427R & L– General Mycology \*
- PLS 359– Plant Cell Structure & Function \*
- PLS 448A– Plant Biochem/ Metabolic Engineering

### Genetics

- ECOL 326– Genomics
- ECOL 430– Conservation Genetics
- MIC 452– Antibiotics: Biological Perspective
- MCB 340– Intro to Biotechnology
- MCB 422– Problem Solving & Genetic Tools



### Science & Society

Counts toward Biology—Biomedical Emphasis **ONLY**

- ECOL 249– Evolution: Its Content and Its History
- ECOL 280– Sociobiology and the Evolution of Cooperation
- ECOL 326– Genomics
- MCB 404– Bioethics
- PHIL 321– Medical Ethics \*