ORGANISMAL BIOLOGY (Proposed for Spring 2013)
Conservation And Biodiversity Formal Option

FRESHMAN YEAR

ENGL 1100 English Comp I 3
MATH 1610 Calculus I 4
CHEM 1030 Fund. of Chemistry I 3
CHEM 1031 Chemistry Lab 1
BIOL 1020 Principles of Biology 4

ENGL 1120 English Comp II 3
CHEM 1040 Fund. of Chemistry II 3
CHEM 1041 Fund of Chemistry Lab 1
CORE HISTORY 3
BIOL 1030 Organismal Biology 4

15
17

SOPHOMORE YEAR

CORE HUMANITIES (PHILOSOPHY)4 3
CORE SOCIAL SCIENCE2 3
CORE FINE ARTS 3
CORE LITERATURE 3
BIOL 3000 Genetics 4

CHEM 2030 Survey of Organic Chem 3
CORE SOCIAL SCIENCE OR HUM5 3
CORE HISTORY OR LIT1 3
BIOL 3030 Evolution & Systematics 3
BIOL 3060 Ecology 4

16
16

JUNIOR YEAR

WILD 3280 Wildlife Mgmt 3
WILD 3281 Wildlife Mgmt Lab 1
ENTM 3040 General Entomology 4
BIOL 4020 Vertebrate Biodiversity 4
BIOL 3100 Plant Biology 3

PHYS 1000/1001 Found Physics 4
BIOL 4100 Cell Biology 3
BIOL 5240 Animal Physiology 4
Eco/Evo/Diversity Elective5 3

15
14

SENIOR YEAR

BIOL 5090 Conservation Biology 3
BIOL 4010 Invertebrate Biodiversity 4
Eco/Evo/Diversity Elective5 4
Free Elective 3

STAT 2510 Stat Biology & Health Science 3
BIOL 4950 Undergraduate Seminar 1
BIOL 5120 Systematic Botany 4
Eco/Evo/Diversity Electives5 7

14
15

TOTAL HOURS 122

Long range schedules for COSAM courses are online at www.auburn.edu/cosam/students/
Courses in **BOLD** will be used to calculate GPA in major.
Options for courses labeled CORE are in the Auburn University Bulletin (www.auburn.edu/bulletin) under Core Curriculum.

1 Students must complete a two-course sequence in either HIST or LIT (for example, World History 1 and 2 or American Lit 1 and 2). For complete HIST and LIT sequence options, see the Bulletin.

2 Students who complete a HIST sequence other than HIST 1010 and 1020 should talk to an advisor about CORE SOC SCI choices.

3 If a LIT sequence is chosen, this course must be a CORE SOCIAL SCIENCE. If a HIST sequence is chosen, this course must be a CORE HUMANITIES.

4 Choose from PHIL 1010, 1020, 1030, 1040, 1050, 1060, 1070, 1080, 1090, 1100 or HONRS 1007 or 1017.

5 Approved Biology electives are on the back of this sheet.
### Organismal Biology Major Electives

**Ecology, Evolution, Biodiversity Electives**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>BIOL 3010</td>
<td>Comparative Anatomy</td>
</tr>
<tr>
<td>BIOL 3040</td>
<td>Biology of Marine Systems</td>
</tr>
<tr>
<td>BIOL 3075</td>
<td>Introduction to Oceanography</td>
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<td>BIOL 3100</td>
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<td>BIOL 4010</td>
<td>Invertebrate Biodiversity</td>
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<td>BIOL 4020</td>
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<tr>
<td>BIOL 4395</td>
<td>Marine Faunistic Ecology</td>
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<td>Marine Fisheries Management</td>
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<td>BIOL 4455</td>
<td>Marine Invertebrate Zoology</td>
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<tr>
<td>BIOL 4465</td>
<td>Parasites of Marine Animals</td>
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</table>
BIOL 5525 Marine Behavioral Ecology
BIOL 5535 Marine Conservation Ecology
BIOL 5550 Wetland Biology
BIOL 5650 Ethology
BIOL 5740 Herpetology
BIOL 5750 Ornithology
BIOL 5760 Mammalogy

Animal & Dairy Sciences
ANSC 4100 Farm Animal Behavior

Entomology and Plant Pathology
ENTM 4020 Economic Entomology
ENTM 4040 Insects Affecting Humans, Domestic Animals, and Wildlife
ENTM 5030 Insecticides in the Environment
ENTM 5140 Aquatic Insects
ENTM 5150 Arachnology
ENTM 5220 Insect Ecology
ENTM 5300 Systematic Entomology
ENTM 5330 Insect Pest Management
ENTM 5340 Urban Forest Insects
ENTM 5360 Landscape Entomology
ENTM 5370 Urban Entomology
ENTM 5440 Insect Morphology
PLPA 5200 Introductory Mycology

Forestry and Wildlife Science
WILD 4310 Wildlife Management Techniques
WILD 5280 Wildlife Ecology and Management I
WILD 5281 Wildlife Ecology and Management I Lab
WILD 5290 Wildlife Ecology and Management II
WILD 5291 Wildlife Ecology and Management II Lab

Fisheries and Allied Aquaculture
FISH 5220 Water Science
FISH 5320 Limnology

Mathematics
MATH 2660 Topics in Linear Algebra

**Cellular/Molecular/Microbiology Electives**

Biological Sciences
BIOL 3020 Genomic Biology
BIOL 3200 General Microbiology
BIOL 4000 Histology
BIOL 4101 Cell Biology Lab
BIOL 4200 Clinical Microbiology
BIOL 4410 Vertebrate Development
BIOL 5130 Advanced Plant Physiology
BIOL 5131 Advanced Plant Physiology Lab
BIOL 5190 Cell and Molecular Signal Transduction
BIOL 5210 Microbial Physiology
BIOL 5220 Introductory Molecular Genetics
BIOL 5230 Virology
BIOL 5250 Microbial Evolution and Diversity
BIOL 5260 Prokaryotic Molecular Genetics
BIOL 5270 Host-Microbe Interactions
BIOL 5320 Plant Gene Expression
BIOL 5465 Marine Microbiology
BIOL 5500 Immunology
BIOL 5501 Immunology Lab
BIOL 5521 Gene Expression and Recombinant DNA Lab
BIOL 5660 Food Microbiology
BIOL 5700 Applied and Environmental Microbiology

Soils and Agronomy
AGRN 5060 Soil Microbiology

Plant Pathology
PLPA 3000 General Plant Pathology
PLPA 5200 Introductory Mycology

Physiology Electives

Biological Sciences
BIOL 3010 Comparative Anatomy
BIOL 4000 Histology
BIOL 4410 Vertebrate Development
BIOL 5130 Advanced Plant Physiology
BIOL 5131 Advanced Plant Physiology Lab
BIOL 5210 Microbial Physiology
BIOL 5240 Animal Physiology
BIOL 5600 Mammalian Physiology

Animal Sciences
ANSC 3600 Reproductive Physiology