



CHARLES E. SCHMIDT COLLEGE OF SCIENCE
 Department of Biological Sciences
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MEMORANDUM

Date: April 14, 2015
 Subject: Changes in Catalog for Biology Majors

Please see the attached document that show in RED changes in the catalog regarding the Biology undergraduate degrees.

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| Approved by: | |
| Department Chair: <i>[Signature]</i> | Date: 4/19/15 |
| College Curriculum Chair: <i>[Signature]</i> | 4/22/15 |
| College Dean: <i>[Signature]</i> | 4/23/15 |
| UUPC Chair: <i>[Signature]</i> | 4/ |
| Undergraduate Studies Dean: <i>[Signature]</i> | 5/8/15 |
| UFS President: _____ | _____ |
| Provost: _____ | _____ |

| Core Requirements (47-49 credits) | | |
|--|--------------------|-------------|
| Biological Principles and Lab | BSC 1010, 1010L | 4 |
| Biodiversity and Lab | BSC 1011, 1011L | 4 |
| General Chemistry 1 and Lab | CHM 2045, 2045L | 4 |
| General Chemistry 2 and Lab | CHM 2046, 2046L | 4 |
| Organic Chemistry 1 | CHM 2210 | 3 |
| Organic Chemistry 2 | CHM 2211 | 3 |
| Methods of Calculus | MAC 2233 | 3 or |
| Calculus with Analytic Geometry 1 | MAC 2311 | 4 |
| College Physics 1 | PHY 2053 | 4 or |
| General Physics 1 | PHY 2048 | 4 |
| College Physics 2 | PHY 2054 | 4 or |
| General Physics 2 | PHY 2049 | 4 |
| General Physics 1 Lab | PHY 2048L | 1 |
| General Physics 2 Lab | PHY 2049L | 1 |
| Experimental Design and Statistical Inference | PSY 3234 | 3 or |
| Introduction to Biostatistics | STA 3173 | 3 |
| Select at least three of the courses below (the other may be used as an elective) | | |
| Genetics | PCB 3063 | 4 |
| Molecular and Cell Biology | PCB 4023 | 3 |
| Principles of Ecology | PCB 4043 | 3 |
| Evolution | PCB 4674 | 3 |

| Electives (select at least 21 credits from the list below). The Department of Psychology and the Department of Biological Sciences jointly administer the Neuroscience and Behavior major. Thus, any Biology major may choose electives from that program list, too. | | |
|---|--------------------|-----|
| Biochemistry 1 | BCH 3033 | 3 |
| Vascular Plant Anatomy and Lab | BOT 3223, 3223L | 4 |
| Marine Botany and Lab | BOT 4404, 4404L | 4 |
| Principles of Plant Physiology and Lab | BOT 4503, 4503L | 4 |
| Plant Biotechnology | BOT 4734C | 3 |
| Biotechnology 1 Lab | BSC 4403L | 2 |
| Biotechnology 2 Lab | BSC 4427L | 2 |
| Biology of Cancer | BSC 4806 | 3 |
| Directed Independent Study | BSC 4905 | 1-3 |

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|---|--------------------|-------------|
| Honors Research | BSC 4917 | 3 |
| Honors Thesis | BSC 4918 | 3 |
| Special Topics (Model Systems Genetics Lab) | BSC 4930 | 3 |
| Organic Chemistry Lab | CHM 2211L | 2 |
| General Microbiology and Lab | MCB 3020, 3020L | 4 |
| Medical Bacteriology | MCB 4203 | 3 |
| Microbial Ecology | MCB 4603 | 3 |
| Marine Biodiversity and Lab | OCB 4032, 4032L | 4 |
| Marine Biology and Lab | OCB 4043, 4043L | 4 |
| Marine Microbiology and Molecular Biology and Lab | OCB 4525, 4525L | 4 |
| Marine Ecology and Lab | OCB 4633, 4633L | 4 |
| Marine Science | OCE 4006 | 4 |
| Issues in Human Ecology | PCB 3352 | 3 |
| Human Morphology and Function 1 and Lab | PCB 3703, 3703L | 4 |
| Human Morphology and Function 2 and Lab | PCB 3704, 3704L | 4 or |
| Immunology | PCB 4233 | 3 |
| Molecular Genetics | PCB 4522 | 4 |
| Comparative Animal Physiology and Lab | PCB 4723, 4723L | 4 |
| Reproductive Endocrinology | PCB 4803 | 3 |
| Cellular Neuroscience and Disease | PCB 4842 | 3 |
| Practical Cell Neuroscience | PCB 4843C | 3 |
| Invertebrate Zoology and Lab | ZOO 2203, 2203L | 5 |
| Functional Biology of Marine Animals and Lab | ZOO 4402, 4402L | 4 |
| Ornithology and Lab | ZOO 4472, 4472L | 4 |
| Comparative Vertebrate Morphogenesis and Lab | ZOO 4690, 4690L | 5 |
| Critical Thinking in Environmental Science | EVS 4021 | 3 |