# Biology

## Bachelor of Science

### Area A: Essential Skills
- **ENGL 1101** English Composition I 3
- **ENGL 1102** English Composition II 3
- **MATH 1113** Precalculus Mathematics 3

### Area B: Institutional Options
- **COMM 1110** Fundamentals of Speech 3
- One of the following electives: 1
  - **COMM 1120** Argumentation and Advocacy
  - **ENGL 1105** Intro to Greek Mythology
  - **ENGL 1110** Creative Writing
  - **GEOL 1000** Natural Hazards
  - **HIST 1050** Appalachian Hist-Special Topic
  - **HIST 1051** Sports Hist & Amer Character
  - **HUMN 1000** Mystery Fiction in Pop Culture
  - **HUMN 1100** Political and Social Rhetoric
  - **PHED 1030** Health & Wellness Concepts
  - **SOCI 1000** Race and Ethnicity in America

### Area C: Humanities/Fine Arts
Choose one to two ENGL course(s): 3-6

- **ENGL 2111** World Literature I
- **ENGL 2112** World Literature II
- **ENGL 2120** British Literature I
- **ENGL 2121** British Literature II
- **ENGL 2130** American Literature I
- **ENGL 2131** American Literature II
- **ENGL 2201** Intro to Film as Literature

If only one ENGL course chosen, add one of the following: 0-3
- **ARTS 1100** Art Appreciation
- **HUMN 1201** Expressions of Culture I
- **HUMN 1202** Expressions of Culture II
- **MUSC 1100** Music Appreciation
- **MUSC 1110** World Music
- **MUSC 1120** American Music
- **THEA 1100** Theatre Appreciation

### Area D: Science/Mathematics/Technology
- **MATH 2253** Calculus and Analytic Geom I ` 4
- **CHEM 1211K** Principles of Chemistry I 4
- **CHEM 1212K** Principles of Chemistry II 4

### Area E: Social Sciences
- **HIST 2111** United States History to 1877 3
  - or **HIST 2112** United States Hist since 1877
- **POLS 1101** American Government 3

Two of the following electives: 6
- **ANTH 1103** Intro to Cultural Anthropology
- **ECON 2105** Principles of Macroeconomics
- **ECON 2106** Principles of Microeconomics
- **GEOG 1100** Introduction to Geography
- **GEOG 1101** Intro to Human Geography
- **GEOG 1111** Intro to Physical Geography
- **HIST 1111** World Civilization to 1650 CE
- **HIST 1112** World Civilization since 1650
- **HIST 2111** United States History to 1877
- **HIST 2112** United States Hist since 1877
- **PHIL 1103** Intro to World Religions
- **PHIL 2010** Intro to Philosophical Issues
- **PHIL 2020** Logic and Critical Thinking
- **POLS 2101** Intro to Political Science
- **POLS 2201** State and Local Government
- **POLS 2301** Comparative Politics
- **POLS 2401** International Relations
- **PSYC 1101** Introduction to Psychology
- **PSYC 2101** Psychology of Adjustment
- **PSYC 2103** Human Development
- **SOCI 1101** Introduction to Sociology
- **SOCI 1160** Social Problems

### Area F: Major Related
- **BIOL 1107K** Principles of Biology I 4
- **BIOL 1108K** Principles of Biology II 4
- **BIOL 2270** Ethical Issues in Science 2
- **PHYS 1111K** Introductory Physics I 4
- **PHYS 1112K** Introductory Physics II 4

### Upper Level Courses
- **BIOL 3200K** Cellular Biology 4
- **BIOL 3400K** Genetics 4
- **BIOL 3500K** Ecology 4
- **BIOL 4000** Senior Seminar 2
- **BIOL 4250** Evolution 3
- **CHEM 3211K** Organic Chemistry I 4
- **CHEM 3212K** Organic Chemistry II 4
- **MATH 2200** Introduction to Statistics 3

### B.S. Biology Electives
- Must include at least one Biology Lab Science (noted with “K”).
  - **BIOL 3000** Research Method/Scientific Com
  - **BIOL 3300K** Developmental Biology
  - **BIOL 3340K** General Microbiology
  - **BIOL 3510K** Plant Biology
  - **BIOL 3520K** Invertebrate Zoology
  - **BIOL 3550K** Conservation Biology
  - **BIOL 3600K** Ornithology
  - **BIOL 3700** Field Biology Techniques
  - **BIOL 3850** Neuroscience
  - **BIOL 3900** Readings in Biology
  - **BIOL 4100** Immunology
  - **BIOL 4275** Bioremediation/Phytoremediatio
  - **BIOL 4360K** Comparative Vertebrate A & P
  - **BIOL 4410K** Molecular Biology
  - **BIOL 4500K** Biotechnology
  - **BIOL 4600** Ecotoxicology
  - **BIOL 4850K** Human Dissection

**Note:**
- Upper level courses in Area E or F must be completed with a minimum grade of C-.
- Electives must be selected from the list provided.
- All courses must be approved by an advisor.
- Course titles and credit values are subject to change.
- Students should consult with their advisor for the most current information.
BIOL 4800  Service Learning in Biology **
BIOL 4900  Special Topics in Biology ***
BIOL 4960  Research in Biology **
MATH 2254  Calculus and Analytic Geom II
MATH 3050  Biological Statistics

Any 3000 or 4000 level Chemistry course EXCEPT CHEM 4000.

Free Electives  9

Select 9 hours from any transfer credit courses in the College curriculum other than PHED courses.

Physical Education

PHED Activity Elective  1

Total Hours  121-122

* MATH 2253 may be taken in Area A if the student meets the prerequisites, with MATH 2254 then taken in Area D. The additional hour of credit will be applied to the upper level curriculum.

** BIOL 4800, BIOL 4960: repeatable for maximum 4 credit hours each.

*** BIOL 4900 (Special Topics in Biology) can be taken multiple times when topic has changed.