



Bachelor of Arts in Biology With Teaching Certificate

Fall 2019-Spring 2020

CORE REQUIREMENTS

Literacy Series

Composition

- ENG 101: College Writing 3 CH

Presentation

- INDS 101: Presentational Literacy 3 CH

Quantitative/Scientific Reasoning

- MATH 125: Quantitative Reasoning 3 CH
(Exemption: Proficiency test score at pre-Calculus level)

- Natural or Physical Science Lab 4 CH

- Science or Quantitative Course 3 or 4 CH

Creative

- Fine or Performing Arts Course 3 or 4 CH
(Art, music, or theater)

Socio-Political

- Social Science Course 3 or 4 CH
(Economics, geography, political science, psychology, sociology, or criminal justice)

Foreign Language

- 150 and 151 or Intermediate Course 3 – 6 CH
(Exemptions: Final grade of C or better for two years of high school language courses or proficiency test score at the Intermediate level)

Humanistic

- REL 120, 121, 122, or 123 3 CH
 Humanities Course 3 CH
(English, history, languages, philosophy, or religion)

Seminar Series

- SEMS 110: Introduction to Seminar 3 CH
 SEMS 200: Western Traditions 3 CH
 SEMS 250: World Cultures 3 CH
 SEMS 400: Global Issues 3 CH

Practicum Series

(Choose two of the following)

- Citizenship
 Leadership
 Study Abroad/Study Away
 Scholarship

Concern for Physical Well-Being

- Theory Courses 2 CH

To determine fulfillment of graduation requirements, consult the department to certify major requirements and the registrar to certify the core requirements.

MAJOR REQUIREMENTS

ENROLLED/COMPLETED/GRADE

I. Foundation Courses

- BIO 145 Foundations of Biology 4 CH ___/___/___

And one of the following four systematics courses:

- BIO 212 Microbiology 4 CH ___/___/___

- BIO 222 Entomology 4 CH ___/___/___

- BIO 262 Animal Systematics 4 CH ___/___/___

- BIO 263 Plant Systematics 4 CH ___/___/___

II. Breadth in the Discipline of Biology

- BIO 290 Cell Biology 4 CH ___/___/___

- BIO 322 Genetics 4 CH ___/___/___

- BIO 342 Biostat & Research Mthds 4 CH ___/___/___

- BIO 392 General Ecology 4 CH ___/___/___

Students must choose one elective based on availability and intent.

The elective must be a 200 or 300 level BIO lab course that is 4 credits except BIO 350 – Principle of Immunology. Students may also choose NSCI 202, 209 or 315

- BIO XXX Elective 4 CH ___/___/___

Note: Courses applied as foundational courses may not also be applied as breadth in the discipline courses.

III. Senior Capstone Experience

- BIO 395 Junior Research Seminar 1 CH ___/___/___

- BIO 462 Senior Seminar 2 CH ___/___/___

And one of the following two courses:

- BIO 452 Advanced Biology 2 CH ___/___/___

- BIO 482 Independent Study 2 CH ___/___/___

Note: A completed research project under the supervision of a biology department faculty member is required of the student majoring in Biology. The project is culminated with a formal scientific research paper and formal oral presentation. See the Biology Chair for specific requirements of the research project.

IV. Related Math and Science Courses

- MATH 142 Precalculus (min. require) 3 CH ___/___/___

And one of the following three pairings:

- CHEM 140 General Chemistry I 4 CH ___/___/___

- CHEM 160 General Chemistry II 4 CH ___/___/___

OR

- PHYS 154 Physics I (non-calc based) 4 CH ___/___/___

- PHYS 164 Physics II (non-calc based) 4 CH ___/___/___

OR

- PHYS 174 Physics I (calculus based) 4 CH ___/___/___

- PHYS 184 Physics II (calculus based) 4 CH ___/___/___

Note: All courses taken for the major in Biology must be passed with a grade of C- or better

SECONDARY EDUCATION REQUIREMENTS in Biology

Freshman Fall

- | | | | | |
|--------------------------|----------|-----------------------------------|---|-------------|
| <input type="checkbox"/> | EDUC 111 | Foundations of American Education | 3 | ___/___/___ |
| <input type="checkbox"/> | SPED 356 | Special Education | 3 | ___/___/___ |

Freshman Spring

- | | | | | |
|--------------------------|----------|-------------------------------------|---|-------------|
| <input type="checkbox"/> | EDUC 112 | Psychology Foundations of Education | 3 | ___/___/___ |
|--------------------------|----------|-------------------------------------|---|-------------|

Sophomore Fall

- | | | | | |
|--------------------------|----------|---------------------------------------|---|-------------|
| <input type="checkbox"/> | EDUC 215 | Curriculum, Instruction, & Assessment | 3 | ___/___/___ |
| <input type="checkbox"/> | EDUC 255 | Mentoring | 3 | ___/___/___ |

Note: EDUC 215 is a prerequisite for all other Phase II methodology courses

JUNIOR FALL

- | | | | | |
|--------------------------|-----------|--|---|-------------|
| <input type="checkbox"/> | SECED 325 | Teaching Reading & Writing in Content Areas | 3 | ___/___/___ |
| <input type="checkbox"/> | SPED 357 | Effective Instructional Practice & Delivery
Methods in Subject Area—All Special Ed. | 3 | ___/___/___ |

JUNIOR SPRING

- | | | | | |
|--------------------------|---------------|-------------------------------|---|-------------|
| <input type="checkbox"/> | SECED 340-370 | Teaching in Secondary Schools | 3 | ___/___/___ |
|--------------------------|---------------|-------------------------------|---|-------------|

SENIOR FALL

- | | | | | |
|--------------------------|-----------|--|---|-------------|
| <input type="checkbox"/> | EDUC 220 | Integrated Instructional Systems | 3 | ___/___/___ |
| <input type="checkbox"/> | SECED 268 | Mentoring II | 3 | ___/___/___ |
| <input type="checkbox"/> | SPED 358 | Intensive Reading, Writing, & Math
Intervention | 3 | ___/___/___ |

SENIOR SPRING

- | | | | | |
|--------------------------|-----------|------------------|---|-------------|
| <input type="checkbox"/> | SECED 444 | Student Teaching | 3 | ___/___/___ |
| <input type="checkbox"/> | EDUC 400 | ELL | 3 | ___/___/___ |

ADDITIONAL COURSE REQUIREMENTS

- | | | | | |
|--------------------------|---|--------------------------------|---|-------------|
| <input type="checkbox"/> | MATH 107 | College Algebra | 3 | ___/___/___ |
| | *Mathematics Majors are Exempt | | | |
| <input type="checkbox"/> | MATH 125 | Quantitative Reasoning | 3 | ___/___/___ |
| | *Mathematics Majors are Exempt | | | |
| <input type="checkbox"/> | AH 105 | Taking Care of Your Well Being | 2 | ___/___/___ |
| | *AH 105 meets the Core Well-Being Theory course | | | |
| <input type="checkbox"/> | CIS 111 | Word Processing Applications | 1 | ___/___/___ |