# B.A. IN BIOLOGY, BIOLOGICAL EDUCATION OPTION
## TEACHER PREPARATION IN BIOLOGY
### 2019/2020 CATALOG

## REQUIRED MAJOR/CONTENT COURSES (C- OR BETTER)

### BIOLOGY/MICROBIOLOGY CORE COURSES—ALL REQUIRED
- BIOB 160N/161N—Principles of Living Systems/Lab (3/1) - autumn, summer
- BIOB 170N/171N—Principles of Biological Diversity/Lab (3/2) - spring, summer
- BIOB 260—Cell and Molecular Biology (4) - autumn, summer
- BIO 272—Genetics and Evolution (4) - spring

### BIOLOGICAL EDUCATION MAJOR COURSES—ALL REQUIRED
- BIOE 370/371—General Ecology/Lab (3/2) - autumn [or substitute BIOE 342 Field Ecology @ Flathead Lake Biological Station]
- BIOM 360/361—General Microbiology/Lab (3/2) - autumn
- BIOO 433/434—Plant Physiology/Lab (3/1) - spring

### ZOOLOGY/ORGANISMAL—CHOOSE ONE OF THE FOLLOWING
- BIOB 301—Developmental Biology (3) - autumn
- BIO 435—Compar. Animal Physiology (3) - spring

### OTHER REQUIRED CONTENT COURSES (C- OR BETTER)

### RELATED FIELDS—ALL THE FOLLOWING ARE REQUIRED
- M 162—Applied Calculus (4) **OR** M 171—Calculus I (4) - both autumn, spring
- STAT 216—Intro to Statistics (4) - autumn, spring, summer
- CHMY 485—Laboratory Safety (1) - autumn
- PHSX 205N/206N—College Physics I/Lab (5) - autumn, spring, summer [or substitute PHSX 215N/216N]
- EDU 497—Methods: 5-12 Science (3) - autumn

### CHOOSE A CHEMISTRY SEQUENCE

| Biology only: CHMY 121N—Intro Gen Chemistry (4) | Biology + CHMY 141N/142N—Coll. Chem I/Lab (4/1) - aut, spr
| CHMY 123/124—Intro Organic/Biochem (4/2) (all offered autumn, spring) | Broadfield: CHMY 143N/144N—Coll. Chem II/Lab (4/1) - sp, sum
| CHMY 123—Intro Organic/Biochem (4) - aut, spring |

### CHOOSE ONE OF THE FOLLOWING GEOSCIENCE COURSES
- GEO 103N—Intro to Environmental Geology - autumn
- GEO 105N—Oceanography (3) - spring

## SECONDARY CERTIFICATION REQUIREMENTS (C- OR BETTER)

To be certified to teach secondary biology, students must be admitted to the College of Education, and meet all state certification requirements for the biology endorsement. A grade of C- or better must be earned in all content courses (listed above), as well as certification courses (listed below). **GPA must be 2.75 overall, in certification courses, and in content courses.**

### REQUIREMENTS FOR ENDORSEMENT
- WRIT 101—College Writing I (3) - autumn, spring, summer
- NASX course (3) - autumn, spring, summer
- HEE 330—Promoting Well-Being in the Classroom P-12 (2) - autumn, spring, summer
- **BLOCK 1:**
  - EDU 202—Early Field Experience (1) - autumn, spring, summer
  - EDU 221—Educational Psych & Measure (3) - autumn, spring, summer
  - EDU 345—Except. & Class. Management (3) - autumn, spring
  - EDU 370—Intersecting Tech. into Education (3) - autumn, spring
- **BLOCK 2:**
  - EDU 407E—Ethics/Policy Issues (3) - autumn, spring, summer
  - EDU 481—Content Area Literacy (3) - autumn, spring
  - EDU 395—Clinical Experience (Must be taken with EDU 497) (1) - autumn
  - EDU 497—Methods: 5-12 Science (3) - autumn
- **STUDENT TEACHING:** EDU 494/495 (15) - autumn, spring

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*Advanced College Writing Requirement met with BIOE 371 and BIOO 434 (both required)*