REQUIRED MAJOR/CONTENT COURSES (C- OR BETTER)

**BIOLOGY/MICROBIOLOGY CORE COURSES—ALL REQUIRED**
- BIOC 160N/161N—Principles of Living Systems/Lab (3/1) - autumn, summer
- BIOC 170N/171N—Principles of Biological Diversity/Lab (3/2) - spring, summer
- BIOC 260—Cell and Molecular Biology (4) - autumn, summer
- BIOC 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**
- BIOC 301—Developmental Biology (3) - autumn
- BIOL 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 (3)
- CHMY 123/124—Intro Organic/Biochem (4/2) (all offered autumn, spring, summer)
- **Biology +:** CHMY 141N/142N—Coll. Chem I/Lab (4/1) - aut, spr
- Broadfield: CHMY 143N/144N—Coll. Chem II/Lab (4/1) - sp, sum
- CHMY 123—Intro Organic/Biochem (4) - aut, spr, sum

**CHOOSE ONE OF THE FOLLOWING GEOSCIENCE COURSES**
- GEO 103N—Intro to Environmental Geology - autumn, spring
- 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
- **BLOCK 1:** EDU 202—Early Field Experience (1) - autumn, spring
- EDU 221—Educational Psych & Measure (3) - autumn, spring
- EDU 345—Except. & Class. Management (3) – autumn, spring
- EDU 370—Integrating 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

*ADVANCED COLLEGE WRITING REQUIREMENT MET WITH BIOE 371 AND BIOO 434 (BOTH REQUIRED)*