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

### BIOLOGY/MICROBIOLOGY CORE COURSES—ALL REQUIRED
- BIOC 100N/101N—Principles of Living Systems/Lab (3/1) - autumn, summer
- BIOC 170N/171N—Principles of Biological Diversity/Lab (3/2) - spring
- 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 BIOE 342 Field Ecology @ Flathead Lake Biological Station]
- BIOM 360/361—General Microbiology/Lab (3/2) - autumn

### BOTANY/ORGANISMAL—CHOOSE ONE OF THE FOLLOWING
- *BIO 320—General Botany (5) - autumn
- BIO 433—Plant Physiology/Lab (3/1) - spring

### ZOOLOGY/ORGANISMAL—CHOOSE ONE OF THE FOLLOWING
- BIOC 301—Develop Biol (3) - aut
- BIOC 435—Comp Animal Physiol (3) - spr
- *BIO 403—Vert. Anatomy (4) - inter.

### 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) - autumn, spring, summer
- 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)
- 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
- ERTH 101N—Earth Systems Sciences - 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
- EDU 360—Promoting Well-Being in P-12 Classrooms (2) - autumn, spring, summer
- BLOCK 1: EDU 202—Early Field Experience (1) - autumn
- 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 only
- EDU 497—Methods: 5-12 Science (3) - autumn only
- **STUDENT TEACHING:** EDU 494/495 (15) - autumn, spring

*ADVANCED COLLEGE WRITING REQUIREMENT MET WITH BIOE 371 AND ONE COURSE MARKED *