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

**BIOLOGY—ALL REQUIRED**
- BIBO 160N/161N—Principles of Living Systems/Lab (4) - autumn, summer
- BIBO 170N/171N—Principles of Biological Diversity/Lab (5) - spring, summer
- BIBO 260—Cell and Molecular Biology (4) - autumn, summer
- BIBO 277—Genetics and Evolution (4) - spring
- BIOE 370/371—General Ecology/Lab (5) - autumn [or substitute BIOE 342 Field Ecology @ Flathead Lake Biological Station]

*Choose a BIO_ advanced college writing course (BIO 433/434 is recommended; see DBS Advising Office for list)*

**CHEMISTRY—ALL REQUIRED**
- CHMY 141N/142N—College Chemistry I/Lab (5) - autumn, spring
- CHMY 143N/144N—College Chemistry II/Lab (5) - spring, summer
- CHMY 123—Intro to Organic & Biochemistry (3) - autumn, spring, summer
- CHMY 485—Laboratory Safety (1) - autumn

**PHYSICS—ALL REQUIRED**
- PHSX 205N/206N—College Physics I/Lab (5) - autumn, spring, summer [or substitute PHSX 215N/216N]
- PHSX 207N/208N—College Physics II/Lab (5) - autumn, spring, summer [or substitute PHSX 217N/218N]

**EARTH SCIENCES—ALL REQUIRED**
- ASTR 131N/134N—Elementary Astronomy/Lab (4) - autumn
- GEO 101N/102N—Intro to Physical Geology/Lab (4) - autumn, spring

**EARTH SCIENCES—CHOOSE AT LEAST ONE OF THE FOLLOWING GEOSCIENCE COURSES**
- GEO 105N—Oceanography (3) - spring
- GEO 108N—Climate Change (3) - autumn

*or sub GEO 103N—Environ Geology*

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

**RELATED FIELDS—ALL REQUIRED**
- M 162—Applied Calculus (4) OR M 171—Calculus I (4) - autumn, spring
- STAT 216—Intro to Statistics (4) - autumn, spring, summer
- EDU 497—Methods: 5-12 Science (3) – autumn

**SECONDARY CERTIFICATION REQUIREMENTS (C- OR BETTER)**

To be certified to teach secondary general sciences, students must be admitted to the College of Education, and meet all state certification requirements for the broadfield science 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—Promotion Wellbeing P-12 (1) - 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, summer
- 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 (REQUIRED) AND ONE MORE APPROVED BIO_ ADVANCED WRITING COURSE.*