**B.S. IN BIOLOGY, ECOLOGY & ORGANISMAL BIOLOGY OPTION**

**2019/2020 CATALOG**

**REQUIRED MAJOR 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
- BIOB 272—Genetics and Evolution (4) - spring

### ECOLOGY—REQUIRED
- BIOE 370/371—General Ecology/Lab (3/2) - autumn [or BIOE 342 Field Ecology - summer @ Flathead Lake Biological Station]

### ECOLOGY & ORGANISMAL MAJOR COURSES—CHOOSE 21 CREDITS OF UPPER DIVISION BIOLOGY OR BIOCHEMISTRY; AT LEAST ONE COURSE FROM EACH OF THE FOLLOWING GROUPS

**Organismal courses**
- BIOB 301—Developmental Biology (3) - autumn
- BIOB 375—General Genetics (3) - spring
- BIOB 468—Endocrinology (3) - intermittent

**—Ology courses**
- BIOM 360/361—Microbiology/Lab (3/2) - autumn
- BIOM 427/428—Gen. Parasitology/Lab (2/2) - autumn
- *BIOO 320—General Botany (5) - autumn*
- BIOO 335—Rocky Mountain Flora (3) - spring, summer

**Specialized Ecology courses**
- *BIOE 428—Freshwater Ecology (5) - spring*
- BIOE 447—Terr Ecosyst Ecology (3) - odd spring (S21)
- BIOE 448—Terr Plant Ecology (4) - intermittent (S20)
- BIOM 415—Microbial Diversity, Eco, Evoln (3) - spring
- WILD 470—Conserv. Wildlife Popns (4) - aut, spring

**FLBS summer courses**
- BIOE 400—Aquatic Microbial Ecol;
- BIOE 416—Alpine Ecology; BIOE 439 Stream Ecology;
- BIOE 440—Conservation Ecol; BIOE 451—Landscape Ecol;
- BIOE 453—Lake Ecology; BIOE 458—Forest Ecology

**Evolution courses**
- BIOB 480—Conservation Genetics (3) - spring
- *BIOB 483—Phylogenetics & Evol (3) - odd spring (S21)*
- BIOB 486—Genomics (3) - autumn

*(Labs/Discussion sections in () are optional, but may be taken for UD elective credit or to help meet the AWR)*

### REQUIRED COURSES OUTSIDE OF THE MAJOR (C- OR BETTER)

**CALCULUS—CHOOSE ONE OF THE FOLLOWING**
- M162—Applied Calculus (4) - autumn, spring
- M171—Calculus I (4) - autumn, spring

**STATISTICS—CHOOSE INTRO OR ADVANCED SEQUENCE**

**INTRO:** STAT 216—Intro to Stats (4) - aut, spring, sum

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<th>ADVANCED: STAT 451/457—Stat. Meth. I /Lab (4) - autumn</th>
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<td>STAT 452/458—Stat. Meth. II /Lab (4) - spring</td>
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**CHEMISTRY—CHOOSE INTRO OR ADVANCED SEQUENCE**

**INTRO:** CHMY 121N—Intro General Chemistry (4)
- CHMY 123/124—Intro Organic/Biochem (4/2)
  (all offered autumn, spring)

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<th>ADVANCED: CHMY 141N/142N—Coll. Chem I/Lab (4/1) - aut, spr</th>
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<td>CHMY 143N/144N—Coll. Chem II/Lab (4/1) - spr, sum</td>
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<td>CHMY 221/222—Organic Chem I /Lab (3/2) - autumn</td>
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<td>CHMY 223/224—Organic Chem II /Lab (3/2) - spring</td>
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**PHYSICS—ALL REQUIRED**
- PHSX 205N/206N—College Physics I/Lab (4/1) - autumn, spring, summer [or PHSX 215N/216N]
- PHSX 207N/208N—College Physics II/ Lab (4/1) - autumn, spring, summer [or PHSX 217N/218N]

*ADVANCED COLLEGE WRITING REQUIREMENT MET WITH BIOE 371 (REQUIRED), AND ONE COURSE MARKED WITH *