# B.S. IN BIOLOGY, FIELD ECOLOGY OPTION
## 2020/2021 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—CHOOSE ONE OF THE FOLLOWING**

- BIOE 370/371—General Ecology/Lab (3/2) - autumn
- BIOE 342—Field Ecology (5) - summer @ FLBS

**SUMMER AT FLATHEAD LAKE BIOLOGICAL STATION—ALL REQUIRED**

- BIOE 440—Conservation Ecology (3) - summer
- BIOE 451—Landscape Ecology (3) - summer
- BIOE 494—Seminars in Ecology & Resource Management (1) - summer

**SUMMER AT FLATHEAD LAKE BIOLOGICAL STATION—CHOOSE AQUATIC OR TERRESTRIAL EMPHASIS**

**AQUATIC Emphasis—Choose two of the following:**

- BIOE 400—Aquatic Microbial Ecology (3)
- BIOE 439—Stream Ecology (3)
- BIOE 453—Lake Ecology (3)

**TERRESTRIAL Emphasis—All Required:**

- BIOE 416—Alpine Ecology (3)
- BIOE 458—Forest & Fire Ecology (3)

**FIELD ECOLOGY MAJOR COURSES—CHOOSE 8 CREDITS OF UPPER DIVISION BIOLOGY; AT LEAST ONE COURSE FROM EACH OF THE FOLLOWING GROUPS**

- **-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
  - BIOO 380—Conservation Genetics (3) - spring
  - BIOO 383—Phylogenetics & Evoln (3) - odd spring (S21)
  - BIOO 386—Genomics (3) - autumn
  - CHMY 121N—Intro General Chemistry (4)
  - CHMY 123/124—Intro Organic/Biochem (4/2)
  - CHMY 205N/206N—College Physics 1/ Lab (4/1) - autumn, spring, summer
  - CHMY 207N/208N—College Physics 2/ Lab (4/1) - autumn, spring, summer

**CHEMISTRY—CHOOSE INTRO OR ADVANCED SEQUENCE**

**INTRO:**

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

**ADVANCED:**

- STAT 451/457—Stat. Meth. 1/Lab (4) - autumn
- STAT 452/458—Stat. Meth. II/Lab (4) - spring

**CALCULUS—CHOOSE ONE OF THE FOLLOWING**

- M162—Applied Calculus (4) - autumn, spring, summer
- M171—Calculus I (4) - autumn, spring, summer

**STATISTICS—CHOOSE INTRO OR ADVANCED SEQUENCE**

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

**ADVANCED:**

- STAT 451/457—Stat. Meth. 1/Lab (4) - autumn
- STAT 452/458—Stat. Meth. II/Lab (4) - spring

**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, summer)

**ADVANCED:**

- CHMY 141N/142N—Coll. Chem I/Lab (4/1) - aut, spr
- CHMY 143N/144N—Coll. Chem II/Lab (4/1) - spr, sum
- CHMY 221/222—Organic Chem I/Lab (3/2) - autumn
- CHMY 223/224—Organic Chem II/Lab (3/2) - spring

**PHYSICS—ALL REQUIRED**

- PHSX 205N/206N—College Physics 1/ Lab (4/1) - autumn, spring, summer [or PHSX 215N/216N]
- PHSX 207N/208N—College Physics 2/ Lab (4/1) - autumn, spring, summer [or PHSX 217N/218N]

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*Advanced college writing requirement met with BIOE 371 or BIOE 342 (required), and one course marked with *