# B.S. IN BIOLOGY, FIELD ECOLOGY 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—CHOOSE ONE OF THE FOLLOWING

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<tr>
<th>Course</th>
<th>Credits</th>
<th>Semester</th>
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<tbody>
<tr>
<td>BIOE 370/371—General Ecology/Lab (3/2)</td>
<td></td>
<td>autumn</td>
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<tr>
<td>BIOE 342—Field Ecology (5)</td>
<td>summer</td>
<td>FLBS</td>
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#### SUMMER AT FLATHEAD LAKE BIOLOGICAL STATION—CHOOSE AQUATIC OR TERRESTRIAL

##### AQUATIC EMPHASIS:
- BIOE 439—Stream Ecology (3)
- BIOE 440—Conservation Ecology (3)
- BIOE 451—Landscape Ecology (3)
- BIOE 453—Ecology of Small & Large Lakes (3)
- BIOB 494—Seminar (1)

##### TERRESTRIAL EMPHASIS:
- BIOE 416—Alpine Ecology (3)
- BIOE 440—Conservation Ecology (3)
- BIOE 451—Landscape Ecology (3)
- BIOE 458—Ecology of Forests & Grasslands (3)
- BIOE 494—Seminar (1)

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

- **Evolution courses**
  - BIOB 480—Conservation Genetics (3) - spring
  - BIOE 483—Phylogenetics & Evol (3) - odd spring (S21)
  - BIOE 486—Genomics (3) - autumn
  - BIOE 406 (*409)—Behavior & Evol (3) - odd autumn (A19)
  - *Biol 484—Plant Evolution (3) - intermittent
  - BIOL 491—Host-Microbe Inter. (3) - spring [DW substitution]

  (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

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<tr>
<th>Course</th>
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<th>Semester</th>
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<tr>
<td><strong>INTRO:</strong> STAT 216—Intro to Stats (4)</td>
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<td>autumn, spring</td>
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<td><strong>ADVANCED:</strong> STAT 451/457—Stat. Meth. I /Lab (4)</td>
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<td>autumn</td>
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<tr>
<td>STAT 452/458—Stat. Meth. II /Lab (4)</td>
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<td>spring</td>
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#### CHEMISTRY—CHOOSE INTRO OR ADVANCED SEQUENCE

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<th>Semester</th>
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<tr>
<td><strong>INTRO:</strong> CHMY 121N—Intro General Chemistry (4)</td>
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<td>CHMY 123/124—Intro Organic/Biochem (4/2)</td>
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<td><strong>ADVANCED:</strong> CHMY 141N/142N—Coll. Chem I/Lab (4/1)</td>
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<td>CHMY 143N/144N—Coll. Chem II/Lab (4/1)</td>
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<td>CHMY 221/222—Organic Chem I/Lab (3/2)</td>
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<td>CHMY 223/224—Organic Chem II/Lab (3/2)</td>
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#### PHYSICS—ALL REQUIRED
- PHSX 205N/206N—College Physcs 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 OR BIOE 342 (REQUIRED), AND ONE COURSE MARKED WITH *