

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
_____ BIOB 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 BIOO 340—Biology/Management Fishes (4) - autumn
BIOM 427/428—Gen. Parasitology/Lab (2/2) - autumn BIOO 462—Entomology (4) - even spring (S22)
*BIOO 320—General Botany (5) - autumn *BIOO 470—Ornithology (4) - spring
BIOO 335—Rocky Mountain Flora (3) - spring, summer *BIOO 475—Mammalogy (4) - autumn

Evolution courses

- BIOB 480—Conservation Genetics (3) - spring BIOE 406 (*409)—Behavior & Evoln (3) - odd autumn (A21)
*BIOB 483—Phylogenetics & Evoln (3) - odd spring (S21) *BIOL 484—Plant Evolution (3) - intermittent (A20)
BIOB 486—Genomics (3) - autumn *BIOM 420—Host-Microbe Inter. (3) - spring

(Discussion section in () are optional, but may be taken for UD 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, 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. I /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 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 *