

DIRECTED ELECTIVES – Natural History & Interpretation

A. Conservation Biology

At least 3 credit hours must be in the subject area of advanced conservation biology. Allowable courses are listed below. The list may vary slightly from year to year.

EFB 390 Wildlife Ecology & Management (4 cr.) **F**
EFB 413 Intro. to Conservation Biology (4 cr.) **S**

B. Advanced Communication

At least 3 credit hours must be in the subject area of advanced communication. Allowable courses are listed below. The list may vary slightly from year to year

CLL 405 Writing for Science Professional (3 cr.) **F,S**
LSA 301 Digital Graphics & Documents (2 cr.) +LSA 302 3D Modeling (1 cr.) **S**

C. Advanced Interpretation

At least 3 credit hours must be in the subject area of advanced interpretation. Allowable courses are listed below. The list may vary slightly from year to year

EFB 417 Perspectives of Interpretive Design (3 cr.) **S**
EFB 521 Principles of Interpretive Programming (3 cr.) **S**

D. Organismal Diversity

To encourage breadth in organism-level biology, students must complete 12 credit hours including at least one course from each of the four groups listed in the catalog (a course from each of the groups is strongly recommended). The lists may slightly from year to year.

1. Diversity of Microorganisms

EFB 303 Introductory Environmental Microbiology (4 cr.) **F**
EFB 340 Forest and Shade Tree Pathology (3 cr.) **S**
EFB 342 Fungal Diversity and Ecology (3 cr.) **CLBS**
EFB 440 Mycology (3 cr.) **F**
EFB 442 Field Mycology (3 cr.) **CLBS**
EFB 443 Plant Virology (3 cr.) **S**

2. Diversity of Plants

EFB 326 Diversity of Plants (3 cr.) **S**
EFB 327 Adirondack Flora (3 cr.) **CLBS**
EFB 336 Dendrology (3 cr.) **F**
EFB 446 Ecology of Mosses (3 cr.) **S**
EFB 535 Flowering Plants: Diversity, Evolution, and Systematics (3 cr.) **F**

3. Diversity of Invertebrate Animals

EFB 351 Principles of Forest Entomology (3 cr.) **S**
EFB 352 Elements of Entomology (3 cr.) **F**
EFB 355 Invertebrate Zoology (4 cr.) **S**
EFB 453 Parasitology (3 cr.) **S**
EFB 554 Aquatic Entomology (3 cr.) **F**

4. Diversity of Vertebrate Animals

EFB 388 Ecology of Adirondack Fishes (3 cr.) **CLBS**
EFB 482 Ornithology (4 cr.) **F**
EFB 483 Mammal Diversity (4 cr.) **S**
EFB 485 Herpetology (3 cr.) **F**
EFB 486 Ichthyology (3 cr.) **S**

E. Field Experience Elective (3 cr.)

This elective is often taken at Cranberry Lake Biological Station, either during the post-freshman summer or subsequent summer. Other options for this requirement need approval of curriculum coordinator.