Iowa Lakeside Laboratory Courses (IALL)

This is a list of all Iowa Lakeside Laboratory courses. For more information, see Iowa Lakeside Laboratory.

**IALL:1010 Earth, Air, and Sky** 1-4 s.h.
Essentials of earth science, including astronomy, meteorology, geology, and paleontology; includes laboratory and fieldwork.

**IALL:1030 Natural History Workshop** 1-2 s.h.
A specific aspect of the upper Midwest's natural history, or techniques for studying natural history; amphibians and reptiles, birds and birding, nature photography, mushrooms and other fungi, Iowa's trees and forests, fish biology, prairies, common algae, common insects, aquatic plants, life in rivers, life in lakes, mosses and liverworts, natural history of Iowa Great Lakes region, field archaeology, scuba diving, astronomy, nature sketching; five-day, nontechnical introductions.

**IALL:1040 Field Archaeology** 4 s.h.
Nature of cultural and environmental evidence in archaeology, how such evidence is used to model past human behavior and land use; emphasis on Iowa prehistory; basic reconnaissance surveying, excavation techniques.

**IALL:3034 Topics in Ecology and Sustainability** 1-4 s.h.
Scientific introduction at intermediate level to ecology and evolution of important groups of organisms: algae to vertebrates, different ecological phenomena (e.g., fire and climate change), varying landforms, different ecosystems (e.g., prairies and aquatic systems); emphasis on sustainability with introduction to concepts, issues, and practices; ability to communicate environmental information through a variety of means. Requirements: one general biology course.

**IALL:3103 Aquatic Ecology** 4 s.h.
Analysis of aquatic ecosystems; emphasis on basic ecological principles; ecological theories tested in the field; identification of common plants and animals. Requirements: ecology, chemistry, and physics courses.

**IALL:3109 Ecology and Systematics of Algae** 4 s.h.
Ecology, morphological structure, phylogeny, and taxonomy of freshwater algae based on field material collected; emphasis on genus-level identifications, biodiversity, ecology; habitat visits to lakes, fens, streams, rivers; algal ecology.

**IALL:3113 Undergraduate Independent Study** 1-4 s.h.
Requirements: junior or senior standing.

**IALL:3117 Ecology and Systematics of Diatoms** 4 s.h.
Field and laboratory study of freshwater diatoms; techniques in collection, preparation, and identification of diatom samples; study of environmental factors affecting growth, distribution, taxonomic characters; project design and execution, including construction of reference and voucher collections; data organization and analysis.

**IALL:3122 Prairie Ecology** 4 s.h.
Basic patterns, underlying physical and biotic causes of regional and local distributions of North American prairie plants and animals; field and laboratory analysis and projects. Requirements: familiarity with basic principles of biology and ecology.

**IALL:3126 Ornithology** 2-4 s.h.
Biology, ecology, and behavior of birds; emphasis on field studies of local avifauna; group projects with focus on techniques of population analysis and methodology for population studies.

**IALL:3131 Ecology** 4 s.h.
Introduction to the principles of ecology at the population, community, ecosystem levels; field studies of local lakes, wetlands, and prairies used to examine factors that control distributions, interactions, and roles of plants and animals in native ecosystems. Requirements: two semesters of introductory biology.

**IALL:3163 Conservation Biology** 4 s.h.
Population- and community-level examination of factors influencing viability of plant and animal populations from demographic and genetic perspectives; assessment of biodiversity; design, management of preserves. Offered summer sessions of odd years.

**IALL:3175 Soil Formation and Landscape Relationships** 2-4 s.h.
Relationships between soil formation, geomorphology, environment; soil description, classification, geography, mapping, interpretation for land use.

**IALL:5213 Graduate Independent Study** 1-4 s.h.

**IALL:5217 Ecology and Systematics of Diatoms** 4 s.h.