

BIOLOGICAL LIMNOLOGY

Department: Biological Sciences

Course Number: BIO 669 Credit Hours: 3

Fall, even numbered years

Biological Limnology is one of a four-course graduate level sequence designed to provide an in depth understanding of the principles and paradigms of aquatic ecosystems and their watersheds. The other courses are Watershed Ecology, Physical/Chemical Limnology and Limnological Analysis. Watershed Ecology, Biological and Physical/Chemical Limnology are 3-hour lecture courses. Limnological Analysis serves as the laboratory course and is offered in the summer session in odd numbered years at the Biological Station.

The primary goal of the Biological Limnology is to develop a working knowledge of the principles and literature on the ecology and biology of aquatic organisms. Much of the focus will be on the organisms of lentic and lotic ecosystems, but wetlands will be covered in some detail. The course is divided into two parts. The first part is a synecology approach and concerning interactions of species with the biogeochemistry and with each other. The second part emphasizes the autecological history of the major taxonomic groups and relevant paradigms. Here we will focus primarily on the literature. Each student investigates a specific taxonomic entity and presents both a written and oral review of its taxonomic history along with its ecological paradigms.

