Stream Ecology
FW 580

Credit hours:  3

Term offered:  Winter

Instructor:  Stan Gregory

Course objectives:  The course examines current concepts in stream ecology. Physical processes that shape stream channels and influence aquatic communities are discussed. Lectures describe fundamental biotic communities and ecological processes in streams. The course presents recent ecological principles emerging from stream ecology and explores applications of those concepts to other ecosystems. Landscape contexts for research and management of streams and rivers are described. Influences of social systems and aesthetic values on aquatic ecology are explored. The course presents applications of recent ecological principles for research and management of aquatic ecosystems.

Course content:  The course consists of two 80-minute lectures each week. In addition to lectures presented by the instructor, aquatic ecologists in the Corvallis research community provide quest lectures on selected topics.

Prerequisites:  None

Text:  Selected papers.

Term papers:  Students prepare a synopsis and annotated bibliography on an area in stream ecology that is related to their research or personal interests.

Testing:  A technical exam and a final.

Students for whom the course is intended:  Graduate students in aquatic ecology. Students with backgrounds primarily in physical sciences are encouraged to take the course with the understanding that additional effort may be required for the biological portion of the course. Students without training in aquatic ecology also are advised that additional effort may be required to become familiar with fundamental ecological concepts.