Biology - Systems Ecology (BIOS)

BIOS 532 - Ecosystem Ecology. 4 Credits.
Offered autumn every other year. Prereq. CHMY 141N or the equivalent.
Coreq. CHMY 143N and BCH 111. This course includes the fundamentals
of an ecosystem approach to ecological research by emphasizing
relationships among physical, chemical, and biotic elements of
interactive systems. It will provide a fundamental basis for more
advanced Systems Ecology courses (e.g., Limnology, Integrated Systems
Ecology, Landscape Genetics, etc.). Level: Graduate

BIOS 534 - Integrated Systems Ecology. 3 Credits.
Offered spring semester alternate years. Principles, theories and
empirical studies that describe the complex attributes and processes of
coupled natural and human systems. Landscape, climate, economic and
social change dynamics and processes emphasized. Flagship course of
the UM-DBS Systems Ecology Program. Students strongly advised but
not required to take BIOS 532 Fundamentals of Ecosystem Ecology prior
to this course. Level: Graduate

BIOS 594 - Seminar. 1-6 Credits.
Offered intermittently. Prereq. graduate standing. Presentations by
student, faculty, and associates on issues and topics in their field. Level:
Graduate

BIOS 595 - Special Topics. 1-4 Credits.
(R-8) Offered intermittently. Experimental offerings of visiting professors,
experimental offerings of new courses, or one-time offerings of current
topics.

BIOS 597 - Research. 1-15 Credits.
(R-15) Prereq., consent of instr. Directed individual research and study
appropriate to the back ground and objectives of the student. Level:
Graduate

BIOS 599 - Thesis. 1-15 Credits.
(R-15) Field and laboratory research on, and writing of, a student’s
masters thesis. Level: Graduate

BIOS 699 - Thesis. 1-10 Credits.
(R-10) Field and laboratory research on, and writing of, a student’s
masters thesis. Level: Graduate