FISHERIES CONSERVATION AND MANAGEMENT

Zoology 466

Fall 2007

Instructor: Dr. Jim Garvey
173A Life Sciences II
phone: 536-7761
e-mail: jgarvey@siu.edu
faculty web: http://www.science.siu.edu/zoology/garvey/
course web: http://www.science.siu.edu/zoology/materials/zool466/

Meeting Place and Time: Lecture: M,W 2:00-2:50; LSII 367
Lab: F 1:00-4:50; LSII 310, alternate weeks, starting Fri., Aug. 24
(TA: Quinton Phelps: qphleps@siu.edu)

Office Hours: By appointment….please come and see me!

Objectives: This course will explore historical and contemporary issues in the management of fishes and conservation of exploited species in marine and freshwater systems (with an emphasis on inland lakes and rivers). It also will introduce students to approaches for assessing fish stocks and managing fisheries. Topics include fishery law, policy development, abundance estimation, recruitment, mortality, age and growth, bioenergetics, regulations, habitat, introduced species, and manipulations. The course will emphasize problem-solving. Students will be required to complete detailed lab reports, similar to those required by agencies to summarize research results or make management recommendations. A central goal is to provide students with a solid conceptual grasp of fisheries issues while gaining the practical tools necessary for managing systems with exploited species.

Tentative Readings:

Required texts:

Kohler, C.C. and W.A. Hubert. 1999. Inland fisheries management in North America, 2nd edition. American Fisheries Society, Bethesda, Maryland.

Kurlansky, M. 1997. Cod: a biography of the fish that changed the world. Penguin Books, New York, New York.

Additional readings:

Will be selected from the primary literature and book chapters. May be distributed or in 173 Life Sciences II. Copier is available on first floor of Life Sciences II by the elevators.

Students with Special Needs: Any students with special needs should contact Dr. Garvey immediately to make the necessary arrangements.

Field Trips: Students will participate in several field trips throughout the semester. You must wear appropriate clothing for outside activities (e.g., old shoes and clothes, boots, sunscreen, etc.). Students should strongly consider purchasing hip or chest waders for field work. Part of the laboratory grade will depend on participation – so students should be prepared to contribute to laboratory exercises.

Internet Access: All course materials, including lecture notes, will be made available on the internet at http://www.science.siu.edu/zoology/materials/zool466. By no means should these materials be used as an alternative to attending lecture or lab. The emphasis of exams will be placed primarily on lectures, labs, and assigned readings. The internet materials should be used as a study aid only.

Grading: Two midterms and a final exam worth 100 points each will be given during the semester. Midterms will only cover material presented since the previous exam. The final exam will be comprehensive, requiring a synthetic grasp of the course materials. The book *Cod* is assigned reading for this course (used copies are available on the internet as well as through the bookstore). Students will be required to write a short essay answering a question related to this book. This essay will be worth 40 points.

Midterm I: 100 points
Midterm II: 100 points
Final Exam: 100 points
Homework: 40 points
***Cod* Summary: 40 points**
Lab Performance: 70 points

Course Total: 450 points

A: 90-100%; B: 80-89%; C: 70-79%; D: 60-69%; F: > 60%

Grading Policy: Missed exams will result in a score of zero for that exam. If you provide a valid excuse for missing an exam well in advance of the scheduled exam date, arrangements may be made. Scores on assignments not turned in on the due date will be reduced by 5% per day, including weekend days. Any form of academic dishonesty will not be tolerated. All assignments must be completed independently.