

FNR 242, Laboratory In Ecology and Systematics of Fishes and Mammals
(1 credit)

Fall Semester

Instructor:

Dr. Rod N. Williams
FORS 202
rodw@purdue.edu

Course Objectives:

The Laboratory in Ecology and Systematics of Fishes and Mammals gives students an opportunity to learn to identify important species of North American freshwater fishes and mammals, with an emphasis on midwestern U.S. species. Information regarding the ecology, natural history, and systematics of the freshwater fishes and mammals is presented. Through the use of a combination of preserved specimens, photographic images of selected species, field guides, and standard taxonomic keys, students have an opportunity to learn the characteristic features of some of the important North American vertebrates. Taxonomic relationships, food habits, and habitat preferences are discussed.

Required Texts:

1. Page, L. M. and B. M. Burr. 1991. A field guide to freshwater fishes: North America north of Mexico. Boston: Houghton Mifflin Co. 432 pp. [Peterson Field Guide]
2. Burt, W. H. and R. P. Grossenheider. 1980. A field guide to the mammals: North America north of Mexico, third edition. Boston: Houghton Mifflin Co. 289 pp. [Peterson Field Guide]
3. FNR 242 Laboratory Manual

Grading Policy:

Students are expected to complete all assignments, including weekly quizzes, laboratory worksheets, and two laboratory practical exams. No make-ups will be given on lab quizzes or exams unless arrangements are made with the instructor before the scheduled lab session.

Mammal Quizzes (5 x 20 points each)	=	100 points
Mammal Lab. Practical Exam	=	200 points
Fish Quizzes (5 x 20 points each)	=	100 points
Fish Lab. Practical Exam	=	<u>200</u> points
TOTAL	=	600 points

A	=	540-600 points
B	=	480-539 points
C	=	420-479 points
D	=	360-419 points
F	=	< 360 points

Course Schedule: 2007

Date	Week	Exercise	Lab Activities
Aug. 21, 22, 23	1	1	introduction; Didelphimorphia, Insectivora, Chiroptera
Aug. 28, 29, 30	2	2	Lagomorpha, Rodentia (part 1); mammal quiz 1
Sept. 4, 5, 6	3	3	Rodentia (part 2); mammal quiz # 2
Sept. 11, 12, 13	4	4	Rodentia (part 3); mammal quiz # 3
Sept. 18, 19, 20	5	5	Carnivora; mammal quiz # 4
Sept. 25, 26, 27	6	6	Artiodactyla; mammal quiz # 5
Oct. 2, 3, 4	7	none	LAB PRACTICAL EXAM: MAMMALS
Oct. 10, 11	8	1	Fishes set 1
Oct. 16, 17, 18	9	2	fishes set 2; fish quiz # 1
Oct. 23, 24, 25	10	3	fishes set 3; fish quiz # 2
Oct. 30, 31; Nov. 1	11	4	fishes set 4; fish quiz # 3
Nov. 6, 7, 8	12	5	fishes set 5; fish quiz # 4
Nov. 13, 14, 15	13	6	fishes set 6; fish quiz # 5
Nov. 20	-	1	Fishes set 1
Nov. 21, 22	14	none	Thanksgiving Break
Nov. 27, 28, 29	15		LAB PRACTICAL EXAM: FISHES
Dec. 4, 5, 6	16	-	No Lab Meeting