UNBC College of Science and Management

INTRODUCTION TO WILDLIFE AND FISHERIES
NREM 204
FALL 2018

Instructor: Dr. Katherine Parker
Lab Building 8-243
Phone: 960-5812
Office Hours: T 3:00-4:00, W 3:30-4:30

Class: M, W 2:30-3:20 in 5-172
Lab: T 11:30-2:20 in 8-321
Computer Lab: 8-362
TA: Jeannine Randall
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COURSE OBJECTIVES

1. To understand life requisites of individual species, and be able to make ecological comparisons between aquatic and terrestrial systems.
2. To recognize specific features and characteristics of terrestrial and aquatic habitats important in maintaining and managing fish, wildlife and biological diversity.
3. To be familiar with techniques commonly used to inventory and monitor fish and wildlife habitats and populations.
4. To characterize and estimate parameters for fish and wildlife populations.
5. To have working knowledge of basic management principles associated with fish and wildlife species.
6. To be exposed to current fish/wildlife conservation and management issues.

COURSE REQUIREMENTS

1. There will be 2 one-hour lecture exams and a comprehensive final. These will cover information provided in lectures and other assigned materials. There also will be 1 comprehensive laboratory exam, covering all laboratory exercises.
2. Laboratory attendance is mandatory. Labs are on Tuesday. Lab worksheets with data and analyses must be completed by the start of lab the following Tuesday. Each worksheet is worth a possible 25 points, and will be reduced by 5 points for each day late. Zero credit will be given if you did not attend the lab.
3. No make-up exams will be allowed except in cases of medical emergency, validated in writing by a medical doctor.

GRADING

Lecture Exams (2)	200 pts	(100 ea)	32%
Lab Assignments	175 pts	(25 ea)	28%
Lab Exam	125 pts		20%
Final Exam	125 pts		20%
Total Points	625 pts		100%

COURSE MANUAL (IN THE UNBC BOOKSTORE): **REQUIRED**

LIBRARY REFERENCE: OPTIONAL TEXTBOOK

Willis, D.W., C.G. Scala, and L.D. Flake. 2009. Introduction to wildlife and fisheries: an integrated approach. 2nd ed. W.H. Freeman and Co., New York, NY. 416 pp.

ACADEMIC DISHONESTY

University regulations strictly forbid academic dishonesty of any type, including plagiarism, cheating during exams, or misrepresenting the nature of your involvement in any assigned work. Students involved in such acts can receive an automatic F in the course.

SPECIAL ACADEMIC ACCOMMODATION

Students who, because of a disability, may have need for special academic accommodation, should come and discuss this with me as early as possible during the course. They also may wish to contact Disability Services in the Teaching and Learning Centre, room 10-1048.

DATE		**LECTURE TOPICS***	**TEXT**
Sept	5	Course details; introduction to wildlife, fish, fisheries	Ch. 1
	10-12	Terrestrial and aquatic needs: food, cover, water, space	Ch. 5
	17-19	Data summaries and statistical concepts	Ch. 9.1
	24-1	Characteristics of fish and wildlife habitats	Ch. 2.4,12
Oct	3	**EXAM** #1	
	8	*No class: Thanksgiving*	
	10	Measurements of wildlife habitats	Ch. 13
	15-17	Characteristics of fish and wildlife populations	Ch. 3, 9.3
	22-24	Population regulation, growth, movements	Ch. 6.8
	29	Population estimation	Ch. 9.2–9.5
	31	Managing fishery streams	Ch. 14, 15, 17
Nov	5	**EXAM #2**	
	7	Managing fishery lakes, exotics	Ch. 14, 15, 17
	12	*No class: Remembrance Day*	
	14-21	Managing wildlife habitats and waterfowl	Ch. 14, 15, 17
	26-28	Wildlife and fish users and values	Ch. 16
Dec	4-14	**FINALS WEEK**	

DATE		**TENTATIVE LABORATORY SCHEDULE***
Sept	11	Measurements of wildlife cover and forage
	18	Assessments of water quality
	25	Fish and wildlife library resources
Oct	2	Stream sampling
	9	Managing and manipulating data with Excel
	16	Coarse woody debris
	23	Habitat selection
Nov	30	Population estimation
	6	Wildlife trees
	13	Fish measurements
	20	Wildlife and fisheries research
	27	**LAB EXAM**

*schedule may be amended if necessary

FIELD SAFETY:

The majority of the labs are field-based and it is important that you understand the safety risks associated with such activities. Please be sure to follow instructions, dress appropriately, always be in touch with your group, and assume personal responsibility for your own welfare and the welfare of the rest of the group.