

Dakota College at Bottineau Course Syllabus

Course Prefix/Number/Title: FWLD 122 – Wildlife & Fisheries Techniques

Course Description: Provide a basic understanding of the biological principles, field, and laboratory techniques involved in research and management of non-game and game wildlife and fish species and their habitat.

Course Objectives: A) To develop a basic methodology of providing sound management plans for a variety of birds, mammals, and fish species,

B) Community, habitat, and ecosystem management approach to integrated management plans,

C) Develop philosophies for seasonal requirements for resident and migratory species, and

D) Develop basic requirements for warm and cold-water species of fish.

Instructor: Shubham Datta

Office: NSC 114

Office hours: By appointment.

Office phone: 701-228-5463

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General Education Competency/Goal # 1: Identifies the interrelationships between humans and their environment

Department Learning Outcomes (LO) #1: Applies scientific methods of inquiry

Lecture/Lab Schedule: Tues, Thurs 9:00-9:50/ LAB: TH. 1-4:50 Labs in this course require some travel to field labs as outlined in the syllabus. These labs are required as part of the course and occur on a yearly basis with professionals in the field. The schedule of labs is subject to change as required by weather or other circumstances. To pass the course Lecture and Lab attendance are required.

Students will attend 2020 NDCTWS between 11-14 February in Mandan ND.

Students will attend 2020 Dakota AFS between 24-26 February, in Spearfish, ND.

Course Website: BlackBoard Website from DCB Online course site.

Textbook(s): 1. The Wildlife Techniques Manual: Volume 1: Research. Volume 2: Management, 7th Edition Johns Hopkins University Press ISBN: 978-1421401591. (Text is not required but recommended for Wildlife majors.)

Course Requirements:

2 Scientific Papers each 100 pts. The Final Paper is a requirement for the class. A passing grade cannot be achieved if the final paper is not handed in.

Weekly quizzes in Lecture and Lab each 50 pts.

2 laboratory practical quizzes each 100 pts.

Grading schedule:

90-100% = A

80-89% = B

70-79% = C

69-79% = D

<60% = F

Tentative Course Outline:

A. A brief history of wildlife management. Landmark legislation. Some successes in managing wildlife.

B. Population ecology. Food and cover. Animal behavior and wildlife management. Ecosystems and natural communities.

C. Wildlife diseases. Predators and predation. Ethics of hunting/trapping- a brief historical approach. Wildlife and water. Wetland classification.

D. Wildlife and soils. Wildlife and farmland. Wildlife and rangelands. Forest management practices.

E. Exotic wildlife – problems and prevention. Nongame and endangered wildlife. Economics of wildlife. Wildlife as a public trust.

F. Big game biology. Big game species and civilization.

G. Fisheries management. Freshwater ecology and physical parameters. Management Techniques.

H. Law enforcement methodology and techniques.

Student E-mail Policy:

Dakota College is increasingly dependent upon e-mail as an official form of communication. A student's campus assigned e-mail address will be the only one recognized by the campus for official mailings. The liability for missing or not acting upon important information conveyed via campus e-mail rests with the student.

Classroom Policies:

All students will respect the classroom environment that which will allow for maximum interaction between students and the professor.

Lab policies: Labs in this class are a privilege. Violation of school procedures regarding student conduct will not be tolerated. Many of the labs are all day field trips and you will be exempt from other classes. However, this does not exempt you from the work that is missed for those classes. All missed work from classes missed because of FWLD 122 lab will be made up

per arrangements with the other instructors. Students that violate this will miss out on future field trips. Labs are repeated around the same time each year.

Academic Integrity:

All students will do their own, original work on reports, laboratory assignments, and essays. Any student caught cheating on an exam or quiz will be reprimanded the first time. If it happens again, the student will drop the class.

Disabilities and Special Needs: Please inform the professor within the first week of classes if any assistance is required due to disabilities or special needs. If you have a disability for which you are or may be requesting an accommodation, you are encouraged to contact your instructor and Kayla O'Toole in the Learning Center (228-5479) as early as possible during the beginning of the semester.