



THE OHIO STATE UNIVERSITY



COURSE SYLLABUS

Introduction to Forestry, Fisheries, and Wildlife

ENR 319
Autumn 2006

Primary Instructor

Dr. David L. Johnson, Professor, Fisheries
Room: 473-C Kottman Hall
Phone: 292-9803
e-mail: johnson.46@osu.edu
Office hours: by appointment

Secondary Instructors

Dr. Amande Rodewald, Assistant Professor, Wildlife
Room: 375C Kottman Hall
Phone: office: 247-6099
e-mail: rodewald.1@osu.edu
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Dr. Roger Williams, Associate Professor, Forestry
Room: 320C Kottman Hall
Phone: 688-4061
e-mail: williams.1577@osu.edu
Office hours: by appointment

Teaching Associates

Ms. Ashley Buchanan, Graduate Teaching Associate
Room: 247 Kottman Hall
Phone: 292-9825
E-mail: buchanan.115@osu.edu
Office hours: by appointment

Ms Andrea Lindsay, Graduate Teaching Associate
Room: 247 Kottman Hall
Phone: 292-9825
E-mail: Lindsay.80@osu.edu
Office hours: by appointment

Course Description

This course is an introduction to the basic elements of forestry, fisheries, and wildlife (FFW) ecology and management. It provides students with a comprehensive and integrated introduction to the problems, concepts and strategies that make these disciplines similar, as well as establishing important differences between them. It has also been organized to provide an introduction to non-majors who may not have the opportunity to take further courses in these fields.

Course objectives

After successful completion of ENR 319, students will be able to:

- Discuss the objectives and limitations of forestry, fisheries, and wildlife management.
- Explain basic ecological concepts and apply them to problems in forestry, fisheries, and wildlife management.
- Explain how ecosystems function to support forestry, fisheries, and wildlife populations and communities.
- Explain the structure and dynamics of populations and communities in relation to sustaining resource production and biological diversity.
- Discuss allocation and use of forestry, fisheries, and wildlife resources to satisfy competing societal needs and explain how systems can be manipulated to meet those needs.
- Use the library efficiently and effectively to find, evaluate, and interpret literature on a matter affecting a FFW resource.

Required Text

None.

Student Evaluations

Over the course of the quarter there will be 4 opportunities for students to be evaluated. Your grade will be based on a total of 450 points. We have included a grade record chart for you to keep a record of your grades. The evaluations are:

| Item | Point Value |
|------------------------|-------------|
| Annotated Bibliography | 50 |
| Midterm Exam 1 | 100 |
| Midterm Exam 2 | 100 |
| Final Exam | 200 |

TOTAL POINTS POSSIBLE 450

Letter Grades

| | |
|--------|----|
| 93-100 | A |
| 89-92 | A- |
| 86-89 | B+ |
| 83-85 | B |
| 79-82 | B- |
| 76-78 | C+ |
| 73-75 | C |
| 69-72 | C- |
| 66-68 | D+ |
| 60-65 | D |
| <60 | E |

Grade Record

| Graded item | Points Received |
|------------------------|---------------------|
| Annotated Bibliography | _____ |
| Midterm Examination #1 | _____ |
| Midterm Examination #2 | _____ |
| Final Examination | _____ |
| Total | _____ /450= _____ % |

The midterm examinations will be divided between objective questions and questions requiring short answers, definitions, listing questions, and essays. The final examination will be comprehensive with short answer, essay and objective questions. It will differ from the midterm exams in that integration of knowledge will be stressed.

We have found that student attendance is critically important to your success in this course. To reward students with strong attendance records we will be taking roll on ten randomly selected class days this quarter. Students present in class 9 or 10 of those days will receive a bonus of 2% on your final class average. Students in class 7 or 8 days will receive a bonus of 1% on your final class average.

Course evaluations will be requested from you during this course. We are eager to meet your needs and improve this course. Please feel free to comment, at any time, on positive or negative aspects of our approach or on course content.

Disabled students

Students with disabilities who need accommodations should see the course instructors during office hours to make arrangements. special needs must be discussed and arrangements made will in advance (preferably during the first week of classes) of when they are required. Special accommodations may be arranged through the OSU Office of Disability Service, 150 Pomerene Hall, 1760 Neil Ave., 614/292-3307, website - <http://ods.ohio-state.edu>.

Information is also available in alternative formats upon request. Please contact Dr. Don Eckert, School of Natural Resources, 210 Kottman Hall, 2021 Coffey Rd., Columbus, OH 43210-1085, 614/292-2265, or eckert.1@osu.edu.

Academic misconduct

Submitting plagiarized work to meet academic requirements including the representation of another's work or ideas as one's own; the unacknowledged word or work use of another person's ideas; and/or the falsification, fabrication, or dishonesty in reporting research results shall be grounds for charges of academic misconduct.

Class Policies

As we are sure you expect us to be well prepared and come to class for every session, we expect the same from you. Exam material will be highly correlated to lecture material; therefore it will benefit you to be in class. The penalty for late papers is 5% per working (weekday) day. Since this penalty is not exorbitant, we will not extend deadlines for any reason. Makeup exams will be offered only under extreme circumstances and will consist of oral or essay questions. If you must leave class early please let us know. It is disconcerting for students to leave class except in an emergency.

Our Teaching Philosophy

Our teaching philosophy is very similar to our life philosophies. We give respect and trust to everyone until we are given reason to do otherwise. You are adults and should be treated as such. Therefore, we will not only give you the freedom that comes with this role, but also the responsibility. In return, we, as well as our Teaching Assistants, expect to be given the same respect. We are here to present a certain body of knowledge to you, and to help you construct skills that will assist you in learning throughout your academic and professional careers. Your job is to integrate what we teach into your own background. If something doesn't make sense or is contradictory, then come see us. We will do our best to find a way to

present the material in a manner that helps you master the information. If we work together as a community in a supportive environment, we guarantee that we will learn as much from each other as you do from us.

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Course Outline (Instructor initials indicated in parentheses)

| Date | Topic |
|-----------------|-----------------------------------------------------------------------------|
| Part I | Forestry, Fisheries, and Wildlife Systems |
| Week 1 | |
| 9/20 | Course introduction: Paradigms and philosophy of natural resource mgmt (RW) |
| 9/22 | Importance of scale in natural resource management (AR) |
| Part II | The Environment |
| Week 2 | |
| 9/25 | Energy flow (DJ) |
| 9/27 | Abiotic aspects of aquatic systems (DJ) |
| 9/29 | Aquatic ecosystems (DJ) |
| Week 3 | |
| 10/2 | Abiotic aspects of terrestrial ecosystems (RW) |
| 10/4 | Terrestrial ecosystems (RW) |
| 10/6 | Ecological function and processes in wetlands (RG) |
| Week 4 | |
| 10/9 | Ecosystem ecology (AR) |
| 10/11 | Landscape ecology (AR) |
| 10/13 | Individuals/life requisites (DJ) |
| Part III | Ecological Concepts |
| Week 5 | |
| 10/16 | FIRST MIDTERM EXAMINATION |

10/18 Life histories/silvics/genetics (RW)
 10/20 Genetics / Species Concepts (AR)

Week 6

10/23 Species interactions and communities (AR)
 10/25 Population structure and dynamics (AR)
 10/27 Population viability (DJ)

Part IV Managing Forests, Fisheries, and Wildlife**Week 7**

10/30 Utilization and harvest (AR)
 11/1 Supplementation and control (DJ)
 11/3 Managing biological diversity (RW)

Week 8

11/6 Sustainability (AR)
 11/8 **SECOND MIDTERM EXAMINATION**
 11/10 **NO CLASS / OSU holiday**

Week 9

11/13 Silviculture (RW) **ANNOTATED BIBLIOGRAPHY DUE**
 11/15 Wildfire management (RW)
 11/17 Restoration of aquatic ecosystems (DJ)

Part V The Human Dimension**Week 10**

11/20 Economics (RW)
 11/22 Policy (RW)
 11/24 **Presidents Day - no classes**

Week 11

11/27 Regulation and enforcement (DJ)
 11/29 Case Study (DJ)
 12/1 Synthesis and Review (DJ, AR, RW)
FINAL EXAM: Wednesday, Dec. 6, 7:30 AM to 9:18 AM

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