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NRES 474: Integrated Resource Management (fall 2023)

Instructor: Dr. Michael Rader

Office: TNR 378

Office hours: Wed 11-12 noon & Fri 10-11 AM, or by appointment

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Course Time/Location:

Lecture- Monday 1:00 – 1:50 PM, TNR 352

Discussion 1- Tuesday 9:00 – 10:50 AM, TNR 254

Discussion 2- Tuesday 12:00 – 1:50 PM, TNR 254

Course Description:

Natural resource management is about making decisions and implementing actions to achieve often competing objectives, in an environment of uncertainty and diverse interest groups. This course will specifically explore and practically apply an adaptive, evidence-based management process to achieve conservation objectives in this environment. While students come to this course with a variety of natural resource majors, the intent here is to show the interdisciplinary nature of conservation problems and involve you in collaborative problem solving that you can apply to a variety of management problems you may face as a future natural resource professional. Lectures will focus on exploring the theory of the steps of the management process, while Discussion will focus on practical application of the steps to real-world problems.

Course Objectives:

1. You will develop natural resource management problem-solving and planning skills.
2. You will develop and demonstrate oral and/or written communication, and critical thinking skills.
3. You will collaborate and work effectively in a team.
4. You will understand and be able to describe the interdisciplinary of natural resource management problems.

Readings:

- [CMP-Open-Standards-for-the-Practice-of-Conservation-v4.0-English.pdf \(conservationstandards.org\)](#)
- [Ecological Landscapes of Wisconsin | Wisconsin DNR](#)
- R. Gregory, L. Failing, M. Harstone, G. Long, T. McDaniels, D. Ohlson. 2012. *Structured Decision Making- A Practical Guide to Environmental Management Choices*. John Wiley & Sons, Ltd.
- Assigned readings are testable material.

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Discussion: The goal of discussion is to reinforce topics covered in lecture and to give students practical application in integrated resource management. We will accomplish this primarily through *discussion of readings and management scenarios* and a *group natural resource management project*. Participation is required.

Grading:

Your course grade will be based on the following components:

Exams (two):	30%
Discussion/Participation:	20%
Management Project:	50%

Exams can be a combination of multiple choice, fill-in-the-blank, short answer, matching, True/False, and discussion.

Grade	%
A	93-100
A-	90-92
B+	87-89
B	83-86
B-	80-82
C+	77-79
C	73-76
C-	70-72
D+	67-69
D	65-66
F	Below 65

****I will not adjust your grade up at the end of the semester just because you are “close” to the next grade. I do not give extra credit at the end of the semester. You must do the work during the semester to earn the grade you want and are capable of. I will round up from .5 to the next higher whole number.***

Exams: There will be two midterm exams. Exams must be taken on the scheduled dates or a score of zero will be assigned. See “Due Dates/Late Policy” for absence policy.

Discussion/Management Project: For each Discussion section, I will assign students to teams to work on a group natural resources management project. The project is comprised of five cumulative tasks: Assess, Plan, Implement, Analyze and Adapt, and Share, and will culminate in a group oral presentation. You will turn in a written report of your project in lieu of a final exam. Peer evaluation will be utilized to assess individual effort and weight task grades. Group members will independently and confidentially assign each group member (including themselves) a percentage to indicate group member contribution. For example, a group of four people would have a total of 400% to divide amongst the group members. I will take the average of the percentages assigned to each group member and multiply that number by the

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group's score to get an individual grade. Groups can remove a member by majority vote in consultation with the instructor. Dropped members have four options: 1) persuade their original group to re-accept them; 2) find another group willing to accept them; 3) complete the project on their own; or, 4) receive a failing grade for the project.

Attendance: Attendance is mandatory for Discussion. I will only excuse absences for University-sanctioned events. You have one "free absence"; use it wisely.

Communication: Students are expected to routinely check their UWSP email and the Canvas course site for updates and materials.

Due Dates/Late Policy: All assignments are due on the specified due date at the beginning of class. Late assignments will incur a **10% penalty the first week they are late and a 20% penalty the second week they are late. Late assignments will not be accepted after two weeks. You are responsible for your own time management and keeping up with due dates.** Illness, family emergency, etc., may be cause for extending a due date if I am notified **prior** to the due date (email and voicemail have date and time stamps) and you can **document** (e.g., Dr.'s note) your absence.

Course Effort/Study: I believe being a full-time University student is akin to having a full-time job. A full-time job generally equates to at least 40 hours of work per week. You will only spend approximately a third of this time in class. You must spend the additional time on **your own** studying, reading, completing assignments, etc. To get the most out of this course and your University experience (i.e., grades, knowledge, skills, etc.), **you** must put in the time outside of class. A good rule of thumb is to plan on spending two hours of outside preparation for every hour you spend in class. Budget this time into your weekly/monthly planner.

Academic Integrity: Academic integrity is central to the mission of higher education in general and UWSP in particular. Academic dishonesty (cheating, plagiarism, etc.) is taken very seriously. Don't do it! The minimum penalty for a violation of academic integrity is a failure (zero) for the assignment. For more information, see the "Student Academic Standards and Disciplinary Procedures" section of the Community Rights and Responsibilities document, UWSP Chapter 14. This can be accessed by viewing page 11 of the document at:

<http://www.uwsp.edu/dos/Documents/CommunityRights.pdf>

Lecture materials and recordings for NRES 474 are protected intellectual property at UW-Stevens Point. Students in this course may use the materials and recordings for their personal use related to participation in this class. Students may also take notes solely for their personal use. If a lecture is not already recorded, you are not authorized to record my lectures without my permission unless you are considered by the university to be a qualified student with a disability requiring accommodation. [Regent Policy Document 4-1] Students may not copy or share lecture materials and recordings outside of class, including posting on internet sites or selling to commercial entities. Students are also prohibited from providing or selling their personal notes to anyone else or being paid for taking notes by any person or commercial firm without the instructor's express written permission. Unauthorized use of these copyrighted

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Professionalism: A professional is competent, reliable, respectful, and has integrity. It is a necessary attribute for most careers, particularly law enforcement. It is never too early to begin developing a professional mindset, e.g., being on time with the appropriate equipment, being competent and knowledgeable in your field, completing assignments correctly and on time, being respectful to others, etc. **I may deduct up to 5% of your final course grade for lack of professionalism**, e.g., absences, profanity, disrespect, sleeping, disrupting class with unsolicited texting and talking, etc.

Disability Policy: Please discuss with me as soon as possible any concerns you may have regarding a disability so we can accommodate you as per UWSP policy.

Emergency Procedures:

If you see/hear something, say something.

In the event of a medical emergency call 9-1-1 or use Red Emergency Phone. Offer assistance if trained and willing to do so. Guide emergency responders to victim.

In the event of a tornado warning, proceed to the lowest level interior room without window exposure. See www.uwsp.edu/rmgt/Pages/em/procedures/other/floor-plans.aspx for floor plans showing severe weather shelters on campus. Avoid wide-span structures (gyms, pools or large classrooms).

In the event of a fire alarm, evacuate the building in a calm manner. Meet at location 200 yards from building. Notify instructor or emergency command personnel of any missing individuals.

Active Shooter/Code React – Run/Escape, Hide, Fight. If trapped hide, lock doors, turn off lights, spread out and remain quiet. Call 9-1-1 when it is safe to do so. Follow instructions of emergency responders.

See UW-Stevens Point Emergency Procedures at www.uwsp.edu/rmgt/Pages/em/procedures for details on all emergency response at UW-Stevens Point.

(Source: UWSP Risk Management Dept.)

Tentative Schedule

		Topic	Reading
Week 1 9/5-9/8	<i>Lecture</i>	<i>No class- Labor Day</i>	
	<i>Discussion</i>	Intro to Course	OSPC- pp. 1-11
Week 2 9/11-9/15	<i>Lecture</i>	Integrated Resource Management	ELW- Intro & Ch. 1
	<i>Discussion</i>	same topic	
Week 3 9/18-9/22	<i>Lecture</i>	Situation Assessment 1	OSPC- pp. 13-18
	<i>Discussion</i>	same topic	
Week 4 9/25-9/29	<i>Lecture</i>	Situation Assessment 2 <i>(no class; read on your own)</i>	OSPC- pp. 19-20
	<i>Discussion</i>	<i>same topic (no class; assignment TBD)</i>	
Week 5 10/2-10/6	<i>Lecture</i>	Situation Assessment 3	OSPC- pp. 21-24
	<i>Discussion</i>	same topic	
Week 6 10/9-10/13	<i>Lecture</i>	EXAM 1	
	<i>Discussion</i>	TBD	
Week 7 10/16-10/20	<i>Lecture</i>	Planning 1	OSPC- pp. 26-37
	<i>Discussion</i>	same topic	
Week 8 10/23-10/27	<i>Lecture</i>	Planning 2	OSPC- pp. 38-43
	<i>Discussion</i>	same topic	
Week 9 10/30-11/3	<i>Lecture</i>	Planning 3	OSPC- pp. 44-45
	<i>Discussion</i>	same topic	
Week 10 11/6-11/10	<i>Lecture</i>	Implementation 1	OSPC- pp. 47-48
	<i>Discussion</i>	same topic	
Week 11 11/13-11/17	<i>Lecture</i>	Implementation 2	OSPC- pp. 49-50
	<i>Discussion</i>	same topic	
Week 12 11/20-11/24	<i>Lecture</i>	Implementation 3	OSPC- pp. 50-53
	<i>Discussion</i>	same topic	

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Week 13 11/27-12/1	<i>Lecture</i>	Analysis & Adaptation	OSPC- pp. 55-59
	<i>Discussion</i>	Presentation prep.	
Week 14 12/4-12/8	<i>Lecture</i>	EXAM 2	
	<i>Discussion</i>	Project Presentations	
Week 15 12/11-12/15	<i>Lecture</i>	Sharing	OSPC- pp. 61-64
	<i>Discussion</i>	Project Presentations	
Week 16 12/18-12/22		FINAL EXAM (none) Tuesday, 12/19, 12:30-2:30 PM	