

Updated: 9-6-2022

NRES 474: Integrated Resource Management (fall 2022)

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 (or not) to achieve resource objectives. This course will specifically explore how management occurs in areas with multiple types of natural resources, diverse and often competing objectives, varied stakeholders, often numerous administrative boundaries, in the face of great uncertainty, i.e., where you will most likely find yourself working as a natural resource professional. Lectures will focus on how public agencies, private landowners and NGO's manage properties with diverse natural resources and differing goals and objectives. Discussion will concentrate on developing your natural resource problem-solving and critical thinking skills through discussion of readings and management scenarios. A major component of the course will involve student teams developing and presenting a management project for a selected natural resource problem to gain practical experience with the integrated nature of natural resource management and to develop oral and/or written communication abilities.

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 role of public agencies, private landowners, and non-government organizations in contemporary natural resource management.

Readings:

- Assigned readings (available online/Canvas)
- Assigned readings are testable material.

Discussion: The goal of discussion is to reinforce topics covered in lecture and to give students practical application in integrated resource management (IRM). We will accomplish this

Updated: 9-6-2022

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 or three):	50%
Discussion/Participation:	25%
Management Project:	25%

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 midterms and an optional final exam. 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: Each week during Discussion we will analyze a reading and/or a management/leadership topic (see Schedule). You must complete assigned readings prior to class and be prepared to discuss the reading in class. Each student is expected to contribute to the discussion each week. Twenty-five percent of your course grade is dependent on your discussion participation. Contributions in class will be scored according to the following scale: 4- well prepared, frequent contributor; 3- satisfactory, need to work on quality or quantity; 2- infrequent comments, unprepared; 0- no contribution, absent. Your course Discussion grade will be your total points earned divided by the total possible (e.g., 11 Discussions X 4 points = 44 points total).

Updated: 9-6-2022

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. 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 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. Your second absence will result in a reduction of your final grade by 1/3 of a letter grade (e.g., B to B-). Your third absence will result in a reduction of your final grade by a letter grade (e.g., B to C). Your fourth absence will result in you receiving an F (failure) for the course.

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>

Updated: 9-6-2022

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 lecture materials and recordings constitutes copyright infringement and may be addressed under the university's policies, UWS Chapters 14 and 17, governing student academic and non-academic misconduct.

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

Updated: 9-6-2022

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 9/6-9/9	<i>Lecture</i>	<i>No class- Labor Day</i>	
	<i>Discussion</i>	Syllabus/Introductions	Introduction
Week 2 9/12-9/16	<i>Lecture</i>	Introduction to IRM	Lockwood et al. 2010; INRMP Fact Sheet
	<i>Discussion</i>	Assessing the Situation 1; Leadership	Ch. 1
Week 3 9/19-9/23	<i>Lecture</i>	Ecological Considerations	Dale et al. 2000
	<i>Discussion</i>	Assessing the Situation 2; Time Management	Ch. 1
Week 4 9/26-9/30	<i>Lecture</i>	Economic Considerations	
	<i>Discussion</i>	Planning 1; Communication	Ch. 2
Week 5 10/3-10/7	<i>Lecture</i>	Stakeholder Considerations	Decker et al. 1996
	<i>Discussion</i>	Planning 2; Decision Making	Ch. 2
Week 6 10/10-10/14	<i>Lecture</i>	EXAM 1	
	<i>Discussion</i>	Implementation 1; Staffing	Ch. 3
Week 7 10/17-10/21	<i>Lecture</i>	Management Philosophies	Yaffee 1999
	<i>Discussion</i>	Implementation 2; Performance Evaluation	Ch. 3
Week 8 10/24-10/28	<i>Lecture</i>	Non-industrial Private Lands	Mir & Dick 2012

	<i>Discussion</i>	Synthesizing Evidence; Deploying Resources	Ch. 4
Week 9 10/31-11/4	<i>Lecture</i>	Industrial Private Lands: Agriculture	Scherr & McNeely 2008
	<i>Discussion</i>	Budgeting; Decentralized Command	
Week 10 11/7-11/11	<i>Lecture</i>	Industrial Private Lands- Forest	Wisconsin's Forests
	<i>Discussion</i>	Monitoring & Adapting 1; Keep It Simple	Ch. 5
Week 11 11/14-11/18	<i>Lecture</i>	Industrial Private Lands- Rangeland	Fuhlendorf et al. 2012; TNC Beef Roadmap
	<i>Discussion</i>	Monitoring & Adapting 2; Decisiveness	Ch. 5
Week 12 11/21-11/25	<i>Lecture</i>	Public Lands: State/County	WIDNR website: County Deer Advisory Councils
	<i>Discussion</i>	Collaborative Learning; Believe in What You're Doing	Ch. 6
Week 13 11/28-12/2	<i>Lecture</i>	Public Lands: Federal	Video: Lakes States Bat HCP
	<i>Discussion</i>	Presentation prep.	
Week 14 12/5-12/9	<i>Lecture</i>	EXAM 2	
	<i>Discussion</i>	Project Presentations	
Week 15 12/12-12/16	<i>Lecture</i>	Non-government Organizations & Partnerships	Trauger et al. 1995
	<i>Discussion</i>	Project Presentations	
Week 16 12/19-12/22		FINAL EXAM (Optional) Wednesday, 12/21, 0800-1000	