NRES 151 – Ecological Basis for Natural Resource Management
Spring 2022 Section 8 Lab Syllabus

Important Note: This syllabus represents the general lab schedule and anticipated content sequencing. These are subject to change as needed. It is the student's responsibility to check Canvas for corrections or updates to the syllabus. Any changes will be clearly noted in a course announcement or through email. Additionally, your lab instructor will supplement this syllabus with their own office hours, attendance expectations, additional assignments, etc.

Course Information

Section Instructor Information

Instructor: Keenan Foley
Office: TNR 362A
Office Hours: By Appointment
E-mail: kfoley@uwsp.edu (preferred contact)

Lab Sections and Instructors

Section	Time	Day	Room	Instructor
1	8-9:50AM	Tuesday	TNR 153	Dr. Diane Lueck
2	8-9:50AM	Friday	TNR 153	Shannon Finnerty
3	9-10:50AM	Thursday	TNR 153	Sophie Demchik
4	10-11:50AM	Monday	TNR 153	Nathan Kluge
5	10-11:50AM	Wednesday	TNR 153	Eden Clymire-Stern
6	10-11:50AM	Friday	TNR 153	Eden Clymire-Stern
7	1-2:50PM	Monday	TNR 153	Keenan Foley
8	1-2:50PM	Wednesday	TNR 153	Keenan Foley
9	2-3:50PM	Tuesday	TNR 153	Shannon Finnerty

Course Catalogue Description

Basic principles of ecology and application of those principles to the management of natural resources. 3 Credits. No Prerequisites or co-requisites. **General Education Designation:** Critical Thinking

Expected Instructor Response Times

- I will attempt to respond to student emails within 1 business day. If you have not received a reply from me within 2 business days, then please resend your email. In general, I do not check email late at night or on weekends.

Textbook & Course Materials

Required Text: Ecological Basis For Natural Resources Management – NRES 151 Fall 2021 Laboratory Manual

Critical Thinking Learning Outcomes

As previously mentioned, this course is designated as a Critical Thinking Course in the UWSP General Education Program. Critical Thinking courses should meet the following learning outcomes (CTLOs):

1) Recognize critical thinking as a process of identifying, analyzing, evaluating, and constructing reasoning in deciding what conclusions to draw (argumentation) or actions to take (decision-making and problem-solving).
2) Identify, analyze, evaluate, and construct reasoning as it is applied to general or discipline-specific questions or issues.
3) Communicate the analysis, evaluation, or construction of reasoning orally, visually, or in writing.

NRES 151 Course Learning Outcomes

The learning outcomes specific to NRES 151 are as follows:

1) Develop fundamental knowledge of the basic principles of applied ecology.
   Assignments and assessments: Lecture readings, lab exercises, lecture, and lab exams.
2) Recognize critical thinking as a process of identifying, analyzing, evaluating, and constructing reasoning in deciding what conclusions to draw (argumentation) or actions to take (decision-making and problem-solving).
   Assignments and assessments: Lab/Lecture discussions and online tutorial quizzes [aligns with CTLO 1]
3) Use observations, experimentation, and simulation to gain knowledge of the natural world and management outcomes.
   Assignments and assessments: Field trips, weekly lab activities, computer lab simulations, and a semester-long experiment in ecological competition.
4) Identify, analyze, evaluate, and construct reasoning regarding the application of basic ecological principles to natural resource management.
   Assignments and assessments: Lab discussions, Library Resource, Assignment, various lab assignments [aligns with CTLO 2]
5) Communicate the analysis, evaluation, or construction of scientific reasoning in writing.
   Assignments and assessments: Lab discussions, Scientific Paper Assignment [aligns with CTLO 3].

As you can see, the lab experience and assignments are critical to the overall learning outcomes of the course as well as to the alignment of this class with the learning outcomes of the Critical Thinking designation within the General Education Program.

Special Needs

If you have a documented disability and verification from the Disability and Assistive Technology Center and wish to discuss academic accommodations, please contact your instructor as soon as possible. It is the student's responsibility to provide documentation of disability to Disability Services and meet with a Disability Services counselor to request special accommodation *before* classes start.

The Disability and Assistive Technology Center is located in 609 Albertson Hall and can be contacted by phone at (715) 346-3365 (Voice) (715) 346-3362 (TDD only) or via email at datctr@uwsp.edu.

Grading – The overall grade in this course is the combination of lab and lecture as follows:

Graded Course Activities

Lecture	**60%**
• Exam 1	15%
• Exam 2	15%
• Exam 3	15%
• Exam 4	15%
Lab	**40%**
• Lab Attendance	5%
• Lab Final	10%
• Quizzes	10%
• Library Assignment	5%
• Lab Report Results, Discussion, Lit. Cited	10%
Total	**100%**

*Late work and/or makeup exams will not be accepted

Attendance

Attendance will be taken in this lab beginning week two (Jan. 31-Feb4). As this is an applied ecology management course, being physically present in this lab is extremely important. Please make every effort to attend every lab meeting.

Conduct

We will strive for an environment of teamwork and open dialogue. Discussion, questions, and comments are encouraged; however, distracting behavior is not. **The attendance grade is reflective of being physically present, as well as participation and professionalism.** Excessive use of electronic devices unless required for coursework is strictly prohibited and will be reflected in attendance grade. Please contact me prior to missing class for excusal. If you require assistance with an assignment, quiz, exam, etc., please contact me before the due date. Failure to do this will allow me little time to assist you.

Communication

Please contact me via email if you have any questions regarding anything about the assignments, lectures, exams, finals projects, etc. While attendance will be taken, if you contact me prior to being absent, you will not lose any points. Similarly, if you need assistance or an extension, contact me **prior** to the due date or deadline. I will provide extensions, etc. if you communicate with me before the assignment is due. No extensions will be provided if you fail to contact me prior to being absent or fail to contact me regarding needing an extension on an assignment.

Masking Policy

Until further notice from UW-System and/or UWSP, face coverings must be properly worn indoors as well as on university transportation. You may not enter a classroom or remain in a classroom without a properly worn (covering mouth and nose) face covering. Failure to comply with this policy is considered student misconduct. Attendance points will not be granted to those who require constant reminders to wear their face mask. Any exemptions must be cleared with DATC and communicated with the instructor prior to the start of class.

NRES 151 – Tentative Laboratory Schedule

Spring 2022

Dates	Topic	Location
Jan 24-28	**Introduction to lab**	Meet in Lab
Jan. 31-Feb 4	**Introduction to Hypotheses and Experimental Design; Begin Competition Study**	Meet in Lab
Feb. 7-11	**Population growth and wolves of Isle Royale**	Meet in Computer Lab
Feb 14-18	**Reading a Scientific Paper; Summarizing Sections of a Scientific Paper**	Meet in Lab
Feb. 21-25	**Library Exercise; Making an argument in a Scientific Introduction**	Meet in Library for half and in Lab for half
Feb. 28-Mar. 4	**Species Concept**	Meet in Lab
Mar. 7-11	**Keystone Predator**	Meet in Computer Lab
Mar. 14-18	**Intermediate Disturbance Hypothesis**	Meet in Computer Lab
Mar. 21-25	**Spring Break**	Spring Break
Mar. 28-April 1	**Conclude greenhouse experiment. Graphing in EXCEL.**	Meet in Lab
April 4-8	**TBD**	TBD
April 11-15	**Biotic index for assessing water quality of Plover River**	FIELD TRIP: Plover River
April 18-22	**Data analysis and interpretation of aquatic invertebrates**	Meet in Lab
April 25-29	**Community structure, diversity, vegetation, and litter invertebrates. Final Papers Due.**	Meet at Schmeeckle Reserve
May 2-6	**Processing Invertebrates, Data Analysis, and Interpretation of Biotic Diversity**	Meet in Lab
May 9-13	**Lab Final.**	Meet in Lab

*We will have a few field days this semester regardless of weather. Please plan accordingly. Proper attire (boots, warm clothes, rain gear, etc.), water, and data collection equipment will ensure and enjoyable experie