Title: Applied GIS Applications in Natural (Water Resources)
Instructors: Dr. Katherine Clancy
Office: TNR 244 (this semester office hours are online or in the computer lab TNR 322)
Office Hours: *See canvas for links*

Come to Office Hours for Help

Monday Office Hours: Ryan Michalesko (graduate student)

time: 3-4:30

Virtual Only: https://wisconsin-edu.zoom.us/my/ryanmichalesko

Tuesday Help TNR 322 (virtual and in person help)

time 10-2 (If you are scheduled for lab, you are expected to attend)

Virtual join: https://wisconsin-edu.zoom.us/my/kclancy

Tuesday Office Hours: Dr. Katherine Clancy

time 2:15-3:15

virtual only: https://wisconsin-edu.zoom.us/my/kclancy

Wednesday Office Hours: Dr. Clancy

time 12-1

face to face and virtual, TNR 322, https://wisconsin-edu.zoom.us/my/kclancy

E-mail: kclancy@uwsp.edu,

Expectations: Understand basics of how to use a spreadsheet (i.e. excel) and college algebra. Access to AcrGIS Pro software and hardware to support this software (if off campus)

Objectives: After completing the reading assignments and laboratories in this course you should be able to do the following:

1. Make a professional map in the correct projection

2. Edit raster and vector data
3. Obtain and interpret spatial data
4. Describe how spatial data are used in natural resources
5. Develop skill visualizing spatial data using symbology, maps, and charts

Textbook: Your textbook are the lecture notes and recordings. Most software is taught in the online/instructor led format similar to this class's format.

SCHEDULE

It is rare, but occasionally there needs to be a change in the syllabus schedule. The weeks have companion dates in the canvas calendar. Please check the canvas syllabus for more details including due dates.

Week	Topic
1	Maps as Stories
2	Introduction to Feature Classes, Introduction to Climatology (Climate Scales)
3	Coordinate Systems and Projection, Adding XY Data
4	Raster Models, Land Cover, and Clean Water Act
5	Bear Home Range Estimation, NLCD
6	Reclassify Bins and Histograms, ESRI's Living Atlas
7	Discussion: GIS in Your Field (no lab)
8	Midterm (no lab)
9	DEMs and Slope
10	Contour Mapping, HUCs and he Driftless Region
11	Soils , RUSLE, Soil Erosion and Forest Types
12	Thanksgiving Maps
13	Land Cover Change Trends
14	Map Stories No Lab
15	Final Review
Final Exam	Final exam will open December 16th and is due December 19th.

POLICIES AND OTHER CONSIDERATIONS

I. UWSP Community Bill of Rights and Responsibilities

UWSP values a safe, honest, respectful, and inviting learning environment. In order to ensure that each student has the opportunity to succeed, a set of expectations have been developed for all students and instructors. This set of expectations is known as the Rights and Responsibilities document, and it is intended to help establish a positive living and learning environment at UWSP. For more information go to: http://www.uwsp.edu/stuaffairs/Pages/rightsandresponsibilites.aspx.

The Rights and Responsibilities document also includes the policies regarding academic misconduct, which can be found in Chapter 14. A direct link can be found here: http://www.uwsp.edu/stuaffairs/Documents/RightsRespons/SRR-2010/rightsChap14.pdf.

II. Americans with Disabilities Act

The Americans with Disabilities Act (ADA) is a federal law requiring educational institutions to provide reasonable accommodations for students with disabilities. For more information about UWSP's policies, check here: http://www.uwsp.edu/stuaffairs/Documents/RightsRespons/ADA/rightsADAPolicyinfo.pdf.

If you have a disability and require classroom and/or exam accommodations, please register with the Disability Services Office and then contact me at the beginning of the course. I am happy to help in any way I can. For more information, please visit the Disability Services Officecan also find more information here: http://www4.uwsp.edu/special/disability/.

III. Participation

Professional behavior is expected toward your classmates and instructor. It is highly unusual that there is a problem of this nature, but I will not tolerate such behavior. Slurs against a person's gender, race, religion, sexual orientation, political affiliation or essentially attacks against a person are not tolerated in this class or on this campus (and in professional settings). This requirement does not restrict your freedom of speech associated with expressing your opinion. Learning how to express opposing opinions without becoming emotive or insulting is an excellent skill to acquire.

If the behavior is identified in the online class environment or via email and it is not corrected, then it may be followed by removal of your extra credit and/or a deduction of 10 percent of your final grade. Extreme measures can result in a discussion with the Dean of Students.

IV. Grade Calculations

Grade Distribution:

Weekly Quizzes: 10 pts each with 13 quizzes for a total of 120 points (lowest score will be dropped)
Discussions: 30 points each (maps as stories (10 pts) and discussion in your field (20 pts))
Two exams midterm (40 points) and final (60 points) for a total of 100 points
Labs 9 labs, 20 points each for a total of 180 points
Professionalism (timely submission of materials, attendance where applicable, respect towards other students and your professors, following class and university rules during class time) 20 points
Rude or combative behavior towards other students or instructors will result in a reduction of your final grade by 10-15% (this is in addition to the professionalism points being removed).

Total 450 points

Grade	Percent	Grade	Percent
A	94-100%	C	70-74%
A-	90-93%	C-	65-69%
B+	87-89%	D+	62-64%
B	83-86%	D	55-61%
B-	80-82%	F	< 55%
C+	75-79%		

Assignments (discussion, labs, quizzes, exams, projects) which are turned in after the due date will be penalized. Assignments will not be accepted after the closing date (please see the canvas orientation video for details)

VI. Quizzes

Quizzes are online, open notes and open book. You may not work with another person. Do not take a quiz while logged into another person's computer. Do not take quizzes side by side with another classmate. Do not involve yourself in behavior that gives the appearance of cheating.

The best place to take quizzes is on campus because of the fast internet connection. If this is not possible, then choose a location where you will not be disturbed. The quizzes will time out after the allocated time and this will count as a quiz trial. For example, I do not recommend that you take quizzes at work if you will be called away or disturbed for long periods of time. **If you need help finding a suitable location to take your online quiz, then let me know.**

VII. Discussions

Discussion are usually 2 parts. First, you are required to post something. Second, you are required to respond to at least two other posts. Please contact me if you are having serious difficulties (personal, health, family, etc.). Discussions are further graded on accuracy of content, grammar and spelling, and civility.

Thus far, incivility has never been a problem. Please remember that you do not have to agree with the person, but you may not insult other classmates. Slurs against a person's gender, race, religion, sexual orientation, political affiliation or essentially attacks against a person are not tolerated in this class or on this campus (and in professional settings). This requirement does not restrict your freedom of speech associated with expressing your opinion. Learning how to express opposing opinions without becoming emotive or insulting is an excellent skill to acquire.

VIII COVID-19 and other precautions

We will follow university guidance (which includes CDC guidance) regarding COVID-19, monkeypox, and other health-related issues. Please reference the [UWSP's website related to COVID (Links to an external site.)](). The [CDC website (Links to an external site.)]() provides guidance on isolation and precautions related to COVID. As needed, we will announce policy changes that affect you in this class. It is expected that everyone will respect the needs and preferences of classmates and instructors.

Lab: If you have a cough or cold and attend lab, it is a courtesy (not required) to others to wear a mask while you are sitting next to someone. I will be wearing a mask when I sit next to you to help you. If you have additional health concerns, please reach out to me.
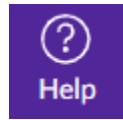
Course Technology Requirements

- View this website to see [minimum recommended computer and internet configurations for Canvas]().
- You may also need access to the following tools to participate in this course.
    - computer
    - printer
    - a stable internet connection (don't rely on cellular)

UWSP Technology Support

- Visit with a [Student Technology Tutor]()
- Seek assistance from the [IT Service Desk]() (Formerly HELP Desk)
    - IT Service Desk Phone: 715-346-4357 (HELP)
    - IT Service Desk Email: techhelp@uwsp.edu

Canvas Support

In canvas, Click on the ⓘ Help button in the global (left) navigation menu and note the

options that appear:

Support Options	Explanations
Ask Your Instructor a Question Submit a question to your instructor	Use **Ask Your Instructor a Question** sparingly; technical questions are best reserved for Canvas personnel and help as detailed below.
Chat with Canvas Support (Student) Live Chat with Canvas Support 24x7!	**Chat**ting **with Canvas Support (Student)** will initiate a *text chat* with Canvas support. Response can be qualified with severity level.
Contact Canvas Support via email Canvas support will email a response	**Contact**ing **Canvas Support via email** will allow you to explain in detail or even upload a screenshot to show your particular difficulty.
Contact Canvas Support via phone Find the phone number for your institution	Calling the Canvas number will let Canvas know that you're from UWSP; phone option is available 24/7.
Search the Canvas Guides Find answers to common questions	**Search**ing **the Canvas guides** connects you to documents that are searchable by issue. You may also opt for **Canvas video guides**.
Submit a Feature Idea Have an idea to improve Canvas?	If you have an idea for Canvas that might make instructions or navigation easier, feel free to offer your thoughts through this **Submit a Feature Idea** avenue.

All options are available 24/7; however, if you opt to email your instructor, I may not be available immediately. Self-train on Canvas through the Self-enrolling/paced Canvas training course