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)

This course is on canvas. You need to watch the orientation and proceed through the canvas material. Contact Dr. Clancy immediately if you have difficulties. We are here for you, but please note the following:

- 1. Questions about quizzes or grading all should go to Dr. Clancy at E-mail: kclancy@uwsp.edu
- 2. You can see any instructor/TA/tutor about GIS lab issues regarding this class.
- 3. It is your responsibility to know our office hour availability (updated times are listed in canvas).
- 4. Some office hours are in the instructor's office, in the computer lab TNR 322, or virtual. Make sure you check this detail.

Who can Help? We have two instructors and one tutor for this class.

#### Lab Instructors:

- 1. Dr. Katherine Clancy (course instructor, Tuesday 10-12 lab instructor), office TNR 244, kclancy@uwsp.edu ,https://wisconsin-edu.zoom.us/my/kclancy
- 2. Ms. Amanda Griswold (Tuesday 12-2 in-person lab instructor), office TNR 371, agriswol@uwsp.edu

### Additional Support

Undergraduate Tutor: Alexis Sonneman, Time By Appointment (<u>asonn296@uwsp.edu</u>) or see canvas for time and location details.

Expectations: Understand basics of how to use a spreadsheet (i.e. excel) and college algebra, NRES 251

**Objectives:** After completing the reading assignments and laboratories in this course you should be able to do the following: Make a professional map in the correct projection; Edit raster and vector data; Obtain and interpret spatial data; Describe how spatial data are used in natural resources; and Develop skill visualizing spatial data using symbology, maps, and charts.

**Textbook:** There is no textbook for this course.

### **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			
Week	Start Day	Lecture Topic	Graded Item	
			orientation Quiz, Activity,	
1	5-Sept	Maps as Stories	Discussion, weekly quiz	
		Introduction to Feature Classes,		
2	11-Sept	Introduction to Climatology (Climate Scales)	weekly quiz, lab	
		Coordinate Systems and Projection, Adding		
3	18-Sept	XY Data	weekly quiz, lab	
		Raster Models, Land Cover, and Clean Water		
4	25-Sept	Act	weekly quiz, lab	
5	2-Oct	Bear Home Range Estimation, NLCD	weekly quiz, lab	
		Reclassify Bins and Histograms, ESRI's		
6	9-Oct	Living Atlas	weekly quiz, lab	
7	16-Oct	Discussion: GIS in Your Field (no lab)	discussion	
8	23-Oct	Midterm (no lab)	midterm (online)	
9	30-Oct	DEMs and Slope	weekly quiz, lab	
		Contour Mapping, HUCs and he Driftless		
10	6-Nov	Region	weekly quiz, lab	
		Soils , RUSLE, Soil Erosion and Forest		
11	13-Nov	Types	weekly quiz, lab	
12	20-Nov:			
and	Thanksgiving	No labs (you can access the 12/13 week quiz and		
13	week	lab and get a head start if you want to get ahead)	no quiz/no lab	
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and				
13	27-Nov	Land Cover Change Trends	weekly quiz, lab	
14	4-Dec	Map Stories, No Lab	weekly quiz	
15	11-Dec	Final Review	, ,	
		finals week (available December 11, must		
	18-Dec	take by December 19 <sup>th</sup> )	online final	

### IV. Grade Distribution:

## Orientation Quiz 5 pts

Weekly Quizzes: 10pts each with 11 quizzes for a total of 110 points

Discussions: 10 (icebreaker) and 20 points for a total of 30 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

# Orientation Quiz: 5 pts

Please note that habitually late labs, disruptive behavior may incur an additional penalty of at least 10%.

Total 445 points

Grade	Percent	Grade	Percent
Α	94-100%	С	70-74%
A-	90-93%	C-	65-69%
B+	87-89%	D+	62-64%
В	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 a while, 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.