

**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](mailto: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](mailto: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](mailto:agriswol@uwsp.edu)

#### **Additional Support**

Undergraduate Tutor: Alexis Sonneman, Time By Appointment ([asonn296@uwsp.edu](mailto:asonn296@uwsp.edu)) 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**

The schedule follows the undergraduate course (please see the Water 391 syllabus), except for the following:

Pre-Discussion for Three Paper Assignment: Reference and Connection (10 pts), Due October 6<sup>th</sup>

Week 7 Graduate Discussion (25 pts) Due October 24<sup>th</sup>

ESRI Continuing Ed Assignment: (the following activities take 1-3 hours for the combined certificate and assignments). You can start these any time after week 4 and should have the background to complete them independently. If you have problems, contact Dr. Clancy immediately.

1. Understanding Spatial Relationships Certificate (5 pts), due Nov 10<sup>th</sup>
2. Understanding Spatial Relationship Assignment (15 pts), due Nov 10<sup>th</sup>
3. Exploring Spatial Relationships Certificate (5 pts), due Nov 17<sup>th</sup>
4. Exploring Spatial Relationships Assignment (15 pts), due Nov 10<sup>th</sup>
5. Introduction to Overlay Analysis Certificate (5 pts) due Dec 1<sup>st</sup>
6. Introduction to Overlay Analysis Assignment (15 pts) due Dec 1<sup>st</sup>
7. Introduction to Proximity Analysis Certificate (5 pts) due Dec 1<sup>st</sup>
8. Introduction to Proximity Analysis Assignment (15 pts) due Dec 1<sup>st</sup>

#### IV. Grade Distribution:

Orientation Quiz 5 pts

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

Discussions: 10 (ice breaker) and 20 points for a total of 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

ESRI Courses-4 20 pts, 80 pts

Three paper Assignment 25 pts

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

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

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 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**

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.