

Title: GIS and Water Resources
Water 478
Fall 2019
Instructor: Dr. Katherine Clancy
Office: CNR 244
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Office hours: **Monday 2-3, and Wednesday 10-11 or by appointment**

Schedule for semester is subject to change

Week	Topic
1: Sept 3-6	Introduction to Map Making
2: Sept 9-13	Maps and Rasters
3: Sept 16-20	Editing Shapefiles
4: Sept 23-27	Watershed Delineation Toolbox
5: Sept 30-Oct 4	Watershed Delineation 2*
6: Oct 7-11	Advanced Raster Tools: Reclassify and Histogram Theory
7: Oct 14-18	Advanced Raster Tools: Mosaicking and Resampling
8: Oct 21-25	Review for Practicum (no quiz or lecture), you will have an online practice exam
9: Oct 28-Nov 1	Practicum (test) and Introduction to NETCDF
10: Nov 1-8	Iterators and Project Discussion
11: Nov 11-15	Time Series and Autocorrelation Part 1
12: Nov 18-22	Time Series and Autocorrelation Part 2
13: Nov 25-29	Thanksgiving, no lecture or formal lab
14: Dec 2-6	Project work
15: Dec 9-13	Project Presentation

Assessment

Quizzes 11, 10 pts each (1 is dropped): 100 pts

Labs 8, 20 pts each, 160 pts

Watershed Lab*, 50 pts

Project Presentation 50 pts

Practicum Exam 100 pts

Participation 40 pts

Final Exam 50 pts

Total: 450 pts

Grade	Percent	Grade	Percent
A	93-100%	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%		

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/rightsandresponsibilities.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 Office, located on the 6th floor of the Learning Resource Center (the Library). You can also find more information here: <http://www4.uwsp.edu/special/disability/>.

III. Attendance and Participation

Attending class meetings and arriving promptly are expectation for the course. If you must miss class, please email me. Participation expectations include having required readings completed before class, bringing necessary materials (course text, equipment for taking notes), listening attentively to others, being respectful of instructor and peers, contributing to class discussion/activities, and completing assignments by the due date. Participation points will be lost if you miss class, unless you have an excused absence. Absences are excused for students who have mandatory, academic, UWSP sponsored events (such as class fieldtrips, conference presentation) or students who are participating in a varsity level sport which is organized and overseen by a UWSP coach (or coaching team).

- Student missing 3 or more labs will incur a 10% penalty from their final grade.