Instructor: Dr. Katherine Clancy

Come to Office Hours for Help

Zoom link for virtual office hours: https://wisconsin-edu.zoom.us/my/kclancy

E-mail: kclancy@uwsp.edu

The course is "housed" in the Canvas course software. Office hours, assignment due dates, details, etc. are in Canvas. Tutor information is also located in Canvas.

Course Information

Course Description: Characterization and quantification of the hydrologic cycle

Textbook & Course Materials

Hydrology Textbook: Environmental Hydrology 2nd Ed by Andy Ward and Stanley Trimble (W&T)

Statistics in Water Resources (provided as an electronic pdf, see the canvas)

https://www.uwsp.edu/canvas/Pages/default.aspx

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

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

- 1. Describe the basic physical processes involved in the hydrologic cycle.
- 2. Obtain and interpret hydrologic and climatic data.
- 3. Apply appropriate statistical analysis to hydrologic data.
- 4. Summarize and describe hydrologic data in graphical and tabular form.

Changes to the course schedule may occur. Graded Course Activities. For details and due dates, please check canvas or any updates.

			Readings in addition to	Lab (Hamayyark	
Week Start		Lecture Topic (lecture	Lecture	Lab/Homework Topic (subject to	Lab
Day	Week	notes on canvas)	Powerpoints	change)	Period
Jan 22		Characterizing the	•		
	1	Hydrologic Cycle	1.1-1.4 (W&T)	Stats Homework	No lab
Jan 29				Lab: Precip Mini Lab	
	2	Precipitation	2.1-2.3 (W&T)	1 and Quiz	Lab/Quiz
Feb 5				Lab: frequency	
			2.7 12.4-12.5.3	analysis and flood	
	3	Frequency Analysis	(W& T)	diagram	lab
Feb 12			W&T 1.5-1.6,		
			H&H 3.7,		
		Hydrology Stats and	McCabe and		
	4	McCabe and Wolock	Wolock, 2002	Lab: Precip Lab 2	lab
Feb 19		Evaporation and and	Chapter 4		
	5	SPI Index	(W&T)	Lab: SPI and SPEI	lab
Feb 26		Groundwater and	11.1-11.4	Lab: Groundwater	
	6	Drought Indices	(W&T)	Elevation	lab
March 4		Groundwater and			
		Stationarity and	review week 4		R exam
	7	Trends	reading	Midterm Lab Quiz	lab
March 11		Review (March 11)			
		and Midterm (March			
	8	13)	review readings	No lab	No lab
March					
25 th					
(Ramadan					
starts					
March		Runoff and Design	5.1-5.2,5.5-	ArcGIS: Watershed	
23 rd)	9	Storms	5.6.2 (W&T)	Delineation	Lab
April 1st			Court (Court)		
(day after				Curve Number	
' <i>'</i>	10	Infiltration /Cail Dhysica	chapter 3	Homework and	No Joh
Easter)	10	Infiltration/Soil Physics	(W&T)	Online Quiz	No lab
		Hydrograph		AraCIS Cumia	
Annil Q+h	11	Separation and Watersheds	5.3-5.4 (W&T)	ArcGIS Curve Number	lah
April 8th	11	vvatersneus	J.3-3.4 (VVQI)	Hydrograph	lab
April 15th		Hydrograph		Separation and	
		Separation and	review week 9	Comparison to	
	12	Baseflow	reading	Runoff	lab
Annil 22nd	12	Dasellow	reauiiig	NullOII	iab
April 22 nd					
(Passover			chapter 6 and	BEC Hydrology	
begins)	13	Streams	7(W&T)	Report with Maps	lab

April 29th				Manning's homework/quiz on	In class
		Streams and	chapter 6 and	Streams, Manning,	quiz/no
	14	Hydrology Overview	7(W&T)	Baseflow	lab
May 6 th	15	Final Review		no lab	no lab
(Exam					
will open		Final Exam			
to all May	finals	Wednesday May 15 th			
10th)	week	(2:45-4:45)	comprehensive		

Complete Assignments

All assignments for this course will be submitted electronically through Canvas unless otherwise instructed. Assignments must be submitted by the given deadline or special permission must be requested from the instructor before the due date. Extensions will not be given beyond the next assignment except under extreme circumstances.

Late Work Policy

Late work is automatically penalized in Canvas (10% of the assignment per day).

You may **not** submit a lab after feedback has been given. Quiz answers will be released one week after the due date. You may not take a quiz after this date. If you require special consideration due to unique circumstances, you need to contact me in a timely manner.

Letter Grade Assignment

Letter Grade	Percentage
Α	93-100%
A-	90-92%
B+	87-89%
В	83-86%
B-	80-82%
C+	77-79%
С	73-76%
C-	70-72%
D+	67-69%

D	60-66%
F	0-59%

Assignments

Precip Mini Lab 1: 10 pts

• Labs: 7 labs, 20 pts each, lowest grade is dropped

• BEC Hydrology Report with Maps, 30 pts

Online or in-class quizzes: 2-4, 10 pts each (lowest dropped)

Midterm 100 pts (may include lab exam)

• Final Exam 125 pts (may include lab exam)

Quizzes

Quizzes are online, open notes and open "book (online materials are okay)." 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.

For most students, 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.

Labs

You may collaborate with other students currently taking the course, but the work you submit must be your own. For lab credit, projects must be saved in the course folder (s drive) and must reflect your efforts. Folders and projects are checked periodically.

Professionalism

It is highly unusual that there is a problem of this nature. If unprofessional behavior is identified in the classroom, online class environment, or via email (or other interactions), 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. The software we use in this class can be VERY frustrating. Regardless, combative behavior towards other students or instructors/tutors will result in a further reduction of your final grade by 10-15%. If you have grade questions, contact Dr. Clancy. Dr. Clancy is happy to review your assignment, discuss it with you, and strategize ways to improve.