

Syllabus for FNR-80 Introduction to Watershed Management

About this Class:

Course Information

Semester & Year: Fall 2020

Course ID & Section #: FNR-80-E0261

Instructor's name: Liz Houghton

Day/Time of required meetings: MW 3:00-5:30

Location: AT127

Course units: 3

Instructor Contact Information

Please contact me through Canvas email or chat anytime I will check both of these often

Online Zoom Office hours: M-TH 1:00 - 1:30

Phone number: 707-599-6138

Email address: liz-houghton@redwoods.edu

Catalog Description

An introduction to hydrology and the science of managing watersheds. Topics include atmospheric inputs, run-off and erosion, storm-flow components, evapotranspiration impacts and groundwater use. Students participate in field exercises on evaluation and measurement of water resources

Course Student Learning Outcomes

1. Describe and classify features and hydrologic processes of watersheds
2. Explain potential impacts of management activities on streamflow, groundwater storage, sediment production, and water quality
3. Analyze the relationships between climate, weather, and vegetation and how these factors affect the movement of water through watersheds.
4. Lab specific outcome: Assess the physical and biological characteristics of watersheds.

Evaluation & Grading Policy

- Your final grade will be calculated based on the grade in the canvas gradebook and overall participation and involvement in course. For example: a grade of B could be bumped to a B+ based on participation such as asking questions, looking for clarification, active learning and responding to emails and announcements
- The highest percentage in the class will be used to calculate the final grade.
- Rubrics will be used for most assignments. Please review any rubric before starting an assignment
- All assignments will be graded on level of completeness. All answers must be written in complete sentences unless asking for a list or one word response

Grading categories and percentages

- Forty percent of your grade will come the lecture portion of the course and 60% will come from the lab. The table below shows the breakdown of the activities and percentages

Course category		Percent of total grade
Online		
Assignments/Discussions	10%	40%
Online Quizzes	15%	
Final	15%	
Face-to-Face Lab		
Lab Exercises/write-ups	15%	60%
Lab Quizzes	20%	
Watershed project	25%	

A = 93-100%	B + = 88-89%	C + = 70-77%	D = 60 – 69%
A- = 90 – 92%	B = 83-87%	C = 70 -77%	F = 50% or below
	B- = 80-82%		

Due dates

- Important:** There are no due dates for completing lecture assignments (watching videos, responding to short answer questions, fun quizzes etc). However it is to your benefit to complete the online lecture modules before the Wednesday lab activity. The more prepared you are for lab the more fun you can have and the more successful you will be.

There are due dates for the assignments listed in the table below

Assignment	Weekly due date
Discussion (online)	1st post: Monday 11:59pm Response post: Thursday 11:59pm
Lab exercises	Wednesday (of lab) by 11:59pm
Lab Quizzes (online)	due the day of quiz

Make-up Policy

- There are no make-ups for discussions or lab quizzes.
- If you miss a face to face Wednesday lab you can answer lab questions for partial credit. For full credit you can check in with me to search the internet for information, interview classmates and watch videos then summarize what you learned.

Posting grades and Feedback

- **Posting grades:** Grades will be posted within 10 days after turning in any assignment.
- **Feedback:** Feedback for assignments will be provided through the Canvas grade book. Please be sure you know how to check your grade and feedback in Canvas. (see the "know Canvas' and "Getting started" module)

Lab and Field Trip Attendance

- **Missing Lab Class and Field Trips:** Please let me know as soon as possible with your reason for missing class. I am willing to work with you if you communicate with me and show you are willing to put the effort into to any make-up work.

Class participation

You can boost your grade by your active participation in this course. Examples of active participation include:

- Responding to all emails with "Thanks, got it"
- Thorough response to discussion questions
- Contacting your instructor with questions, clarifications, frustrations or comments

Course Calendar

- The course calendar (on the next page) shows the dates and topics for the lab and lecture. The "date posted" column (to the left of the "Lecture Topic" column) shows when lecture material will be posted on Canvas. The column labeled "date"(to the right of the "Lab Topic" column) shows the date when the lab will be conducted. Please note new lecture material will be posted each Wednesday by 11:59 pm.

Course Calendar

Week	Date posted	Lecture Topic	Lab Topic	Lab Date	Lab Quiz/Project due dates
1	8/22	Intro to hydrology and watershed mgmt.	What is a watershed?	8/26	
2	8/27	Hydrologic cycle	What is water and how does the Hydrologic cycle work	9/2	Project group and watershed assignments
3	9/3	Labor Day Holiday	What are soils: soil properties	9/9	Quiz 1: What is a watershed and hydrologic cycle
4	9/10	intro to soils	Find your soil: internet soil survey	9/16	Soils in your watershed
5	9/17	Precipitation	water from the sky: when and for how long	9/23	Quiz 2: Soil properties
6	9/24	Interception	water on the way to the ground	9/30	Vegetation in your watershed
7	9/31	Evaporation and Evapotranspiration	When water hits the ground	10/7	Quiz 3: Precipitation and Interception
8	10/8	Infiltration and percolation	Water going into the ground: infiltration test	10/14	infiltration test in watershed
9	10/15	soil water movement	Water going through soil	10/21	Quiz 4: Evaporation
10	10/22	groundwater	water underground	10/27	
11	10/28	Streamflow	Water coming out of the ground	11/4	Quiz 5: Soil water movement and Groundwater
12	11/5	Water Quality	Veteran's Day Holiday	11/11	
13	11/12	Erosion	Water Quality testing	11/18	Quiz 6: Streamflow
14	11/19	Fall Break	Fall Break	11/25	
15	11/26	project	write-up for project	12/2	Quiz 7: Water Quality and Erosion
16	12/3	project	project presentation	12/9	
	12/17	Final (comprehensive)	Final due the last day of finals week		

About your instructor:

Instructor Name: Liz McGee=Houghton

Contacting your instructor

- **Primary contact:** Always contact me through Canvas email or chat anytime (I will check both of these often)
- **Online Zoom Office hours:** TBA
- **Cell Phone number:** 707-599-6138
- **Email address:** liz-houghton@redwoods.edu
- **Alternate email:** elizhoughton@gmail.com

About you, the student:

Student Accessibility

Students will have access to online course materials that comply with the Americans with Disabilities Act of 1990 (ADA), Section 508 of the Rehabilitation Act of 1973, and College of the Redwoods policies. Students who discover access issues with this class should contact the instructor.

College of the Redwoods is also committed to making reasonable accommodations for qualified students with disabilities. If you have a disability or believe you might benefit from disability-related services and accommodations, please contact your instructor or [Disability Services and Programs for Students](#) (DSPS). Students may make requests for alternative media by contacting DSPS based on their campus location:

- Eureka: 707-476-4280, student services building, 1st floor
- Del Norte: 707-465-2324, main building near library
- Klamath-Trinity: 530-625-4821 Ext 103

During COVID19, approved accommodations for distance education classes will be emailed to the instructor by DSPS. In the case of face to face instruction, please present your written accommodation request to your instructor at least one week before the first test so that necessary arrangements can be made. Last-minute arrangements or post-test adjustments cannot usually be accommodated.

Support for online learners during COVID-19

In response to COVID-19, College of the Redwoods moved the majority of its courses online to protect health and safety. As the faculty and students adjust to this change, clear communication about student needs will help everyone be successful. Please let me know about any specific challenges or technology limitations that might affect your participation in class. I want every student to thrive.

Admissions deadlines & enrollment policies

Fall 2020 Dates

- *Classes begin: 8/22/20*
- *Last day to add a class: 8/28/20*
- *Last day to drop without a W and receive a refund: 9/4/20*
- *Labor Day (all-college holiday): 9/7/20*
- *Census date: 9/8/20 or 20% into class duration*
- *Last day to petition to file P/NP option: 9/18/20*
- *Last day to petition to graduate or apply for certificate: 10/29/20*
- *Last day for student-initiated W (no refund): 10/30/20*
- *Last day for faculty initiated W (no refund): 10/30/20*
- *Veteran's Day (all-college holiday): 11/11/20*
- *Fall break (no classes): 11/23/20-11/28/20*
- *Thanksgiving (all-college holiday): 11/25/20-11/27/20*
- *Final examinations: 12/12/20-12/18/20*
- *Semester ends: 12/18/20*
- *Grades available for transcript release: approximately 1/8/21*

Students who have experienced extenuating circumstances can complete & submit the **Excused Withdrawal Petition** to request an Excused Withdrawal (EW) grade instead of the current Withdrawal (W) or non-passing (D, F & NP) grades. The EW Petition is available from the Admissions and Records Forms Webpage. Supporting documentation is required.

Academic dishonesty

In the academic community, the high value placed on truth implies a corresponding intolerance of scholastic dishonesty. In cases involving academic dishonesty, determination of the grade and of the student's status in the course is left primarily to the discretion of the faculty member. In such cases, where the instructor determines that a student has demonstrated academic dishonesty, the student may receive a failing grade for the assignment and/or exam and may be reported to the Chief Student Services Officer or designee. The Student Code of Conduct ([AP 5500](#)) is available on the College of the Redwoods website. Additional information about the rights and responsibilities of students, Board policies, and administrative procedures is located in the [College Catalog](#) and on the [College of the Redwoods website](#).

Disruptive behavior

Student behavior or speech that disrupts the instructional setting will not be tolerated. Disruptive conduct may include, but is not limited to: unwarranted interruptions; failure to adhere to instructor's directions; vulgar or obscene language; slurs or other forms of intimidation; and physically or verbally abusive behavior. In such cases where the instructor determines that a student has disrupted the educational process, a disruptive student may be temporarily removed from class. In addition, the student may be reported to the Chief Student Services Officer or designee. The Student Code of Conduct ([AP 5500](#)) is available on the College of the Redwoods website. Additional information about the rights and responsibilities of students, Board policies, and administrative procedures is located in the [College Catalog](#) and on the [College of the Redwoods website](#).

Inclusive Language in the Classroom

College of the Redwoods aspires to create a learning environment in which all people feel comfortable in contributing their perspectives to classroom discussions. It therefore encourages instructors and students to use language that is inclusive and respectful.

Setting Your Preferred Name in Canvas

Students have the ability to have an alternate first name and pronouns to appear in Canvas. Contact [Admissions & Records](#) to request a change to your preferred first name and pronoun. Your Preferred Name will only be listed in Canvas. It does not change your legal name in our records. See the [Student Information Update form](#).

Canvas Information

If using Canvas, include navigation instructions, tech support information, what Canvas is used for, and your expectation for how regularly students should check Canvas for your class.

Log into Canvas at <https://redwoods.instructure.com>

Password is your 8 digit birth date

For tech help, email its@redwoods.edu or call 707-476-4160

Canvas Help for students: <https://www.redwoods.edu/online/Help-Student>

Canvas online orientation workshop: <https://www.redwoods.edu/online/Home/Student-Resources/Canvas-Resources>

Community College Student Health and Wellness

Resources, tools, and trainings regarding health, mental health, wellness, basic needs and more designed for California community college students, faculty and staff are available on the California Community Colleges [Health & Wellness website](#).

[Wellness Central](#) is a free online health and wellness resource that is available 24/7 in your space at your pace.

Students seeking to request a counseling appointment for academic advising or general counseling can email counseling@redwoods.edu.

Emergency procedures / Everbridge

College of the Redwoods has implemented an emergency alert system called Everbridge. In the event of an emergency on campus you will receive an alert through your personal email and/or phones. Registration is not necessary in order to receive emergency alerts. Check to make sure your contact information is up-to-date by logging into WebAdvisor <https://webadvisor.redwoods.edu> and selecting 'Students' then 'Academic Profile' then 'Current Information Update.'

Please contact Public Safety at 707-476-4112 or security@redwoods.edu if you have any questions. For more information see the [Redwoods Public Safety Page](#).

In an emergency that requires an evacuation of the building anywhere in the District:

- Be aware of all marked exits from your area and building
- Once outside, move to the nearest evacuation point outside your building
- Keep streets and walkways clear for emergency vehicles and personnel

Do not leave campus, unless it has been deemed safe by the campus authorities.

Eureka Campus Emergency Procedures

Please review the [campus emergency map](#) for evacuation sites, including the closest site to this classroom (posted by the exit of each room). For more information on Public Safety go to the [Redwoods Public Safety Page](#). It is the responsibility of College of the Redwoods to protect life and property from the effects of emergency situations within its own jurisdiction.

In the event of an emergency:

1. Evaluate the impact the emergency has on your activity/operation and take appropriate action.
2. Dial 911, to notify local agency support such as law enforcement or fire services.
3. Notify Public Safety 707-476-4111 and inform them of the situation, with as much relevant information as possible.
4. Public Safety shall relay threat information, warnings, and alerts through the Everbridge emergency alert system, Public address system, and when possible, updates on the college website, to ensure the school community is notified.
5. Follow established procedures for the specific emergency as outlined in the College of the Redwoods Emergency Procedure Booklet, (evacuation to a safe zone, shelter in place, lockdown, assist others if possible, cooperate with First Responders, etc.).
6. If safe to do so, notify key administrators, departments, and personnel.
7. Do not leave campus, unless it is necessary to preserve life and/or has been deemed safe by the person in command.

Student Support Services

The following online resources are available to support your success as a student:

- [CR-Online](#) (Comprehensive information for online students)
- [Library Articles & Databases](#)
- [Canvas help and tutorials](#)
- [Online Student Handbook](#)

[Counseling](#) offers assistance to students in need of professional counseling services such as crisis counseling.

Learning Resource Center includes the following resources for students

- [Academic Support Center](#) for instructional support, tutoring, learning resources, and proctored exams. Includes the Math Lab & Drop-in Writing Center
- [Library Services](#) to promote information literacy and provide organized information resources.
- [Multicultural & Diversity Center](#)

Special programs are also available for eligible students include

- [Extended Opportunity Programs & Services \(EOPS\)](#) provides financial assistance, support and encouragement for eligible income disadvantaged students at all CR locations.
- The TRiO Student Success Program provides eligible students with a variety of services including trips to 4-year universities, career assessments, and peer mentoring. Students can apply for the program in [Eureka](#) or in [Del Norte](#)
- The [Veteran's Resource Center](#) supports and facilitates academic success for Active Duty Military, Veterans and Dependents attending CR through relational advising, mentorship, transitional assistance, and coordination of military and Veteran-specific resources.
- Klamath-Trinity students can contact the CR KT Office for specific information about student support services at 530-625-4821

This syllabus is subject to change at any time....I will let you know.