Instructor | Teaching Assistant
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MW 1000-1200 | Office Hours tbd

**Course Overview**
This course is designed to familiarize students with state and federal water quality laws and water right doctrines. Given this institutional framework, we will then assess various land use activities and their effects on water resources. Best Management Practices (BMPs) to minimize effects on water resources will be evaluated. Site characterization as related to environmental cleanup and mitigation will be presented as case examples. The course will cover the physical, chemical, biological, and social factors that affect water and watersheds.

**Course Goals and Objectives**
Course objectives are to:
1. Develop an understanding of the physical, chemical, and biological factors that affect water resources.
2. Build skills in collecting, analyzing, and evaluating watershed data from various sources.
3. Learn science-based strategies for evaluating how human activities and natural disturbances affect water resources.
4. Learn how to evaluate watershed management action alternatives.

**Course Prerequisites**
Basic word processing skills, Excel or equivalent skills, and ability to find and download data from the internet.

**Required Texts and Materials**
None. All materials are on Canvas. Be prepared for lectures by keeping up with the readings. Class participation will be evaluated. Due to the size and frequency of homework, late homework is not accepted. Homework assignments are meant to be learning exercises, not rote recitals, thus the assignments are only meaningful when done by the individual. Collaboration is encouraged but individual efforts in the final report are the desired final output.

**Supplementary (Optional) Texts and Materials**
Canvas will have reading and reference materials posted.
Library & Research Help
The CSU Libraries Help Desk provides research and technical assistance either in person at Morgan Library or by phone at 970-491-1841. Jocelyn Boice is the librarian supporting this course. Contact her by email at jocelyn.boice@colostate.edu or by phone at 970-491-3882 to ask questions or set up an appointment for in-depth research help.

Course Schedule and Assignments

Lecture number

1 Course objectives

4 Water quality legislation
   Federal, state, stream classification, water rights

1 Water quality criteria and standards

4 Sample collection and field techniques
   precipitation, surface waters, ground waters

3 Water quality monitoring information network
   purpose and design, variable selection

3 Water quality data retrieval

2 Water quality data presentation and statistics

25 Land use and water quality
   mining, LUST, urbanization, grazing, silviculture, recreation, agriculture, pesticides, construction
   activities, wetlands, reservoir management, acid precipitation, in-stream flow, watershed restoration,
   MTBE, CAFO, managed groundwater recharge

Basis for Final Grade
Assignments are designed to increase understanding of watershed issues, develop data collection and analysis skills, and develop technical writing and presentation skills. Exams will test for conceptual understanding of class topics and for ability to apply skills developed through assignments and class activities. The distribution of course grades is:

<table>
<thead>
<tr>
<th>Assessment</th>
<th>Points</th>
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</thead>
<tbody>
<tr>
<td>Exam 1 (week 6)</td>
<td>75</td>
</tr>
<tr>
<td>Exam 2 (week 10)</td>
<td>75</td>
</tr>
<tr>
<td>Attendance/Assignments/Quizzes</td>
<td>200</td>
</tr>
<tr>
<td>Final exam (May 10 at 0730-0930)</td>
<td>150</td>
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<tr>
<td></td>
<td>500</td>
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</tbody>
</table>

Grading will be based on the percentage of total points above earned by each student and on a straight scale of >90%=A, 80-89%=B, 70-79%=C, 60-69%=D, <60%=F. The +/- system will not be used in grading.

Course Policies

Late Work
There are no make-ups for in-class writing, quizzes, the midterm, or the final exam. No late homework accepted.
**Extra Credit**

A number of watershed-related seminars/events will be held on campus this semester. If you attend one of these events and write up a paragraph summary, you can earn 5 extra credit points per event attended, up to a maximum of 15 total extra credit points. These events will be announced in class.

**Grades of "Incomplete"**

Per university policy, an instructor may assign temporary grade of Incomplete to a student who demonstrates that he or she could not complete the requirements of the course due to circumstances beyond the student's control and not reasonably foreseeable. A student must be passing a course at the time that an Incomplete is requested unless the instructor determines that there are extenuating circumstances to assign an Incomplete to a student who is not passing the course. When an instructor assigns an Incomplete, he or she shall specify in writing using the Department Incomplete Grade Form the requirements the student shall fulfill to complete the course as well as the reasons for granting an Incomplete when the student is not passing the course. The instructor shall retain a copy of this statement in his or her grade records and provide copies to the student and the department head or his or her designee. (Section I.6 of the Academic Faculty and Administrative Professional Manual)

**Disability Access**

Colorado State University is committed to providing reasonable accommodations for all persons with disabilities. Students with disabilities who need accommodations must first contact Resources for Disabled Students before requesting accommodations from the professor. Resources for Disabled Students (RDS; http://rds.colostate.edu/home) is located in room 100 of the General Services Building. Their phone is (970) 491-6385 (V/TDD). Students who need accommodations in this course must contact the professor at the beginning of the semester to discuss needed accommodations.

**Attendance Policy**

Instructors and departments are responsible for establishing attendance policies for classes and examinations. These policies must accommodate student participation in University-sanctioned extracurricular/co-curricular activities. Students must inform their instructors prior to the anticipated absence and take the initiative to make up missed work in a timely fashion. Instructors must make reasonable efforts to enable students to make up work which must be accomplished under the instructor's supervision (e.g., examinations, laboratories). In the event of a conflict in regard to this policy, individuals may appeal using established University procedures. For the purposes of this regulation, University-sanctioned activities include competitions, events and professional meetings in which students are officially representing the institution. Appropriate sanctioned activities include:

a. Intercollegiate athletics;

b. Collegiate club sports and competitions;

c. Conferences and workshops recognized by the University not related to academics;

d. Commitments on behalf of the University (ASCSU, band, etc.); and

e. Professional activities recognized by the University related to academics.

Department heads or their designated representatives must approve sanctioned professional and departmental activities. Other sanctioned activities must be approved by the appropriate program director on record with the Division of Student Affairs offices or the Department of Athletics.

*Offer specifics about your expectations for attendance. How many absences are acceptable/expected? Will students get points for attendance? Will you allow make-up exams? You may also describe expectations of courtesy here.

**Religious Accommodation**
Participation in official University activities, e.g., an out-of-town athletic event, or special religious observances may provide a legitimate reason for an excused absence. The student is responsible for discussing this with the instructor at the beginning of the semester.

**Final Exam Policy**

Final examination week is part of the regular semester. Student attendance shall be consistent with University policy.

If a student has three or more final examinations (not classes) scheduled for the same day or if conflicts of examination times occur, the student may negotiate a time change with the instructors involved. If the parties involved cannot find a mutually agreeable time, the Registrar’s Office indicates which courses must be changed. **Note:** The Registrar’s Office must be notified at least one week prior to Final Examination Week to allow instructors time to make appropriate accommodations. It is the student’s responsibility to initiate negotiations.

Any student who has a conflict with the examination schedule must inform the instructor as soon as possible before the examination. If an agreement cannot be reached between the instructor and student as to the appropriateness of a make-up examination the student should appeal to the department head.

http://www.registrar.colostate.edu/final-exams

**Professionalism Policy**

*Offer specifics about your policy on professionalism or late arrivals.

**Example:**

Per university policy and classroom etiquette; mobile phones, iPods, etc. **must be silenced** during all classroom and lab lectures. Those not heeding this rule will be asked to leave the classroom/lab immediately so as to not disrupt the learning environment. Please arrive on time for all class meetings. Students who habitually disturb the class by talking, arriving late, etc., and have been warned may suffer a reduction in their final class grade. When emailing the instructor or TA, please include your full name, CSU ID, and the course number in your email.

**Academic Integrity**

The Department of Forest and Rangeland Stewardship takes academic integrity seriously. At minimum, academic integrity means that no one will use another’s work as their own. The CSU writing center defines plagiarism this way:

Plagiarism is the unauthorized or unacknowledged use of another person’s academic or scholarly work. Done on purpose, it is cheating. Done accidentally, it is no less serious. Regardless of how it occurs, plagiarism is a theft of intellectual property and a violation of an ironclad rule demanding "credit be given where credit is due."

Source: (Writing Guides: Understanding Plagiarism.


If you plagiarize in your work you could lose credit for the plagiarized work, fail the assignment, or fail the course. Each instance of plagiarism, classroom cheating, and other types of academic dishonesty will be addressed according to the principles published in the CSU General Catalog (see page seven, column two: http://www.catalog.colostate.edu/FrontPDF/1.6POLICIES1112f.pdf).

Of course, academic integrity means more than just avoiding plagiarism. It also involves doing your own reading and studying. It includes regular class attendance, careful consideration of all class materials, and engagement
with the class and your fellow students. Academic integrity lies at the core of our common goal: to create an intellectually honest and rigorous community. Because academic integrity, and the personal and social integrity of which academic integrity is an integral part, is so central to our mission as students, teachers, scholars, and citizens, we will ask you to sign the CSU Honor Pledge as part of completing all of our major assignments. While you will not be required to sign the honor pledge, we will ask each of you to write and sign the following statement on your papers and exams:

"I have not given, received, or used any unauthorized assistance."

Title IX Information
CSU’s Student Sexual Harassment and Violence policy, following national guidance from the Office of Civil Rights, requires that faculty follow CSU policy as a “mandatory reporter” of any personal disclosure of sexual harassment, abuse, and/or violence related experiences or incidents shared with the faculty member in person, via email, and/or in classroom papers or homework exercises. These disclosures include but are not limited to reports of personal relational abuse, relational/domestic violence, and stalking. While faculty are often able to help students locate appropriate channels of assistance on campus (e.g., see the CSU Health Network link below), disclosure by the student to the faculty member requires that the faculty member inform appropriate CSU channels to help ensure that the student’s safety and welfare is being addressed, even if the student requests that the disclosure not be shared.

For counseling support and assistance, please see the CSU Health Network, which includes a variety of counseling services that can be accessed at: http://www.health.colostate.edu/. And, the Sexual Assault Victim Assistance Team is a confidential resource for students that does not have a reporting requirement and that can be of great help to students who have experienced sexual assault. The web address is http://www.wgac.colostate.edu/need-help-support.

Source: http://oeo.colostate.edu/title-ix-sexual-assault

Non-Discrimination Statement