

EXAMS: Exams are closed notes and closed book exams.

Exam 1: October 11, 10-11 AM

Exam 2: November 22, 10-11 AM

Problems will be like homework problems, quizzes, and class examples.

You will not be allowed to make up exams without prior approval of the instructor or a certified medical excuse.

ACTIVE LEARNING AND INQUIRY SUBMISSIONS: There will be ~8 inquiry sessions and ~6 active learning activities periodically over the course of the semester based on the materials covered in lectures and homework assignments. These are guided active learning activities and inquiry sessions; some will include submissions at the end of lecture for assessment. No make-up active learning assignments will be given. Active learning activities will be announced at least one lecture period in advance and inquiry session dates are posted in the syllabus.

ATTENDANCE/LEARNING QUIZZES: An announced short quiz will be given periodically based on the materials covered in lectures and homework assignments. These are 5-minute **learning** quizzes meaning that if you submit it, you get full credit regardless of correctness. No make-up quizzes will be given. Quizzes will be announced one lecture period in advance. There will be about 6-7 quizzes over the semester.

CLASSROOM BEHAVIOR EXPECTATION:

To ensure a climate of learning for all, disruptive or inappropriate behavior (repeated outbursts, disrespect for the ideas of others, etc.) may result in exclusion (removal) from this class. As a reminder, use of mobile phones, including text messaging, is not permitted in this class by Faculty Senate Rule (2009, Behavioral Intervention Team).

Any student creating disruptions undermines the opportunity for others to learn and engage with the UNH community, and as such, is in serious violation of the UNH [Student Rights, Rules & Responsibilities](#).

Also, the class follows the CEPS guideline on “The Expectation for Universal Respect” as provided in <https://ceps.unh.edu/dei>

We all value the health and safety of our Wildcat Community and respect everyone’s unique health and risk tolerance. You are welcome to wear a mask in this classroom if you choose. It is your responsibility to obtain a mask before coming to class.

If you required to be in isolation or quarantine, the Dean of Students will send a letter to all your instructors. See extended absence policies below for temporary academic resources to support your continued learning in this course if you must miss significant class time.

ATTENDANCE:

Class attendance is important for your learning. You are responsible for all course assignments and meeting all deadlines unless exceptions are agreed upon with the instructor ahead of time. Attendance on this course is (please state your policy). The following are not considered excused absences: (if you have an excused absence policy). If you need to miss class for a planned activity, let the instructor and TA know ahead of time.

If you need accommodation for a religious or cultural holiday/observance, please let me know as early in the semester as possible.

The class is run in an interactive format and students are called upon in a random fashion to answer questions I put forth. I also give announced quizzes in class, and you must be present to receive credit for the quiz

TENTATIVE GRADING SYSTEM:	90 - 100	A
	80 - 90	B
	70 - 80	C
	60 - 70	D
	< 60	F
	+ or - will be used in the final grade	

IMPORTANT DATES: Monday, September 2nd – Labor Day, no classes
Monday, October 14th – Mid-Semester Break – no classes
Tuesday October 15th - Class follow Monday’s schedule
Monday, November 11th - Veteran’s Day, no classes
Wednesday, November 27th – no lecture
Thursday-Friday, November 28th - 29th - Thanksgiving Holiday, no classes
Monday, December 9th – Last day of classes

ACADEMIC HONESTY: You are expected to abide by the University policies on Academic Honesty. Failure to abide by these policies can result in a failing grade for the course.
<https://www.unh.edu/student-life/academic-honesty-policy>

STUDENTS WITH DISABILITIES:

Under the ADA (Americans with Disabilities Act), any qualified student with a disability has the right to request accommodations to ensure access to their experiences at UNH. SAS supports students across all UNH campuses through the three-step accommodation process (register with SAS, submit documentation, meet with SAS). Once accommodations are approved, students can activate their accommodations through a “semester request” and SAS sends faculty the student’s approved accommodations through an accommodation letter via Accommodate. Faculty have an obligation to respond once they receive official SAS notice of accommodations but are under no obligation to provide retroactive accommodations. SAS (sas.office@unh.edu) can also help faculty determine how to effectively implement accommodations, and CEITL can help with additional pedagogical support.

EMOTIONAL OR MENTAL HEALTH DISTRESS:

Your academic success and overall mental health are important. If, during the semester, you find you are experiencing emotional or mental health issues, please contact the University’s (PACS) (3rd floor, Smith Hall; 603-862-2090/TTY: 7-1-1) which provides counseling appointments and other mental health services. If urgent, students may call PACS M-F, 8 a.m.-5 p.m., and schedule an Urgent Same-Day Appointment.

STUDENT ATHLETES:

Please contact the instructor within the first two weeks of classes to make necessary homework/exam arrangements for team travel time. Policies cannot be made on the day of an exam.

HOMEWORK POLICY:

There will be approximately 10 homework assignments over the course of the semester.

All homework assignments will be graded by the course TA and graders. Submitted homework will follow the guidelines listed below to accepted:

1. Homework will be prepared on engineering paper or neatly arranged and submitted via CANVAS. NO paper assignments will be accepted.
2. Student's Name, course, assignment number, problem number(s), date, and page number will appear at the top of each sheet.
3. "**GIVEN:**" or the problem statement will follow the problem number and will contain the "known" information.
4. "**ASSUMPTIONS:**" will include any assumptions made over the course of the problem solution.
5. Sketch(es) or drawing(s) of the system or structure to be considered will follow the problem statement. The sketch must contain all dimensions, other physical parameters, and the **coordinate system** that will be used.
6. What is required to be found from the problem or "**FIND:**" is the next section after the sketch. All parts requested are listed sequentially in this section.
7. The problem "**SOLUTION:**" will then follow, and it will be arranged neatly and orderly.
8. The answers will be underlined or boxed with units given and, if appropriate, a sense of direction. Negative signs should not be used when an arrow is used to show direction.
9. All work must be written in a system of 'vertical alignment' and should be used to make the work easy to follow and appear professionally.
10. All straight lines are made with a straight edge.
11. All problem sets will have the individual pages submitted as one single PDF document via CANVAS.
12. Homework submitted late will be marked as late and graded with a reduction of 20% of possible points for each 24-hour period past due date.
13. Once the corrected homework assignments have been returned to the class or the solutions have been posted, acceptance of late assignments is at the discretion of the instructor and the maximum credit possible will be 50% of the possible points.

MOST COMMON ERRORS ON HOMEWORK, QUIZZES, TESTS, AND FINAL EXAMS:

1. Failure to draw a complete free body diagram, definition sketch, of the problem system.
2. Failure to include a coordinate system(s) or a sense of positive direction of signs.
3. Failure to state and use the applicable principle.
4. Omitting, ignoring, or changing signs or units.
5. Failure to underline or block the answers.

OBJECTIVES:

The national Accreditation Board for Engineering and Technology (ABET) accredits engineering programs. The UNH Civil Engineering degrees program is ABET-accredited. A bachelor's degree from an accredited university is one of the requirements for a Professional Engineering (PE) license. There are several educational objectives that are required for all graduates from an ABET-accredited engineering program, seven of these will be addressed in CEE 400:

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
3. an ability to communicate effectively with a range of audiences.
4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

Also, at the conclusion of the course you will be able to:

- Understand how a civil engineering impact society
- Understand different disciplines within civil engineering
- Understand how basis mathematical and scientific principles are used in civil engineering

TENTATIVE COURSE SCHEDULE: Changes will be made during the course of the semester according to the progress of the class.

WEEK #	WEEK OF:	TOPIC (LECTURE NUMBER)
1	Aug 26	Introduction to Civil Engineering Being an engineering student How to read and interpret
2	Sept 2	Bringing in the Bystander Ethics, Resilience and Sustainability
3	Sept 9	Basic Problem Solving Case Study Societal Impact of Civil Engineering
4	Sept 16	Structural Engineering
5	Sept 23	Geotechnical Engineering
6	Sept 30	Water Resource Engineering
7	Oct 7	Sustainability Exam Review (Exam 1)
8	Oct 14	Civil Engineering Materials
9	Oct 21	Academic Advising Climate Change Environmental Engineering
10	Oct 28	Transportation Engineering Site Design Energy for Civil Infrastructure
11	Nov 4	Project Introduction Natural Hazards
12	Nov 11	Earthquakes CaPS
13	Nov 18	National Academies Grand Challenges Exam Review (Exam 2)
14	Nov 25	Project Consultation
15	Dec 2	Project Presentations
16	Dec 9	Makeup Day