Syllabus
Department of Civil Engineering
University of Texas at El Paso

CE 2385 - Environmental Engineering Fundamentals

Spring 2023
Monday, Wednesday, and Friday
3.000 Credit hours
3.000 Lecture hours

Professor Alex Mayer
Kelly Hall 204
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915-747-8699
Office Hours: Tuesday, Wednesday, Thursday 12-1 pm, in person (Kelly Hall 204) or virtually via Zoom.

COURSE VENUE
The course lectures will be held in Liberal Arts Building 205 with a few exceptions, when the lectures are held by Zoom or are pre-recorded. The Zoom or pre-recorded lectures will be announced in advance and a Zoom link will be sent to the students.

COURSE DESCRIPTION
This course is an introduction to the engineering aspects of environmental systems to include such topics as water quality management, air pollution and control, solid and hazardous waste management, environmental impact assessment, and governmental regulation.

COURSE OBJECTIVES
1) Develop students’ environmental literacy and promote interest in careers in environmental engineering.
2) Introduce students to the basic principles of science and engineering pertinent to the natural and engineered environment.
3) Introduce the various classes of pollution and the means to prevent and remediate their presence.

LEARNING MODULES
The week-by-week schedule for course is given in the course Blackboard site. This course is designed on Blackboard using a modular format. Each week is packaged so that all the materials, lecture notes, homeworks, and project components are contained in one Blackboard module for a given week. Materials include the following.

- PowerPoint lectures
- Assignments: in-class, homeworks
- Exam preparation materials: equation sheet, list of topics

REQUIRED TEXT
COURSE ASSIGNMENTS AND GRADING
The basis of grading for this course will consist of the following components with the indicated weights:

<table>
<thead>
<tr>
<th>Course Component</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Homework</td>
<td>30%</td>
</tr>
<tr>
<td>Midterm Exams (2)</td>
<td>20% each</td>
</tr>
<tr>
<td>Final Exam</td>
<td>20%</td>
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<tr>
<td>In-class work</td>
<td>10%</td>
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Letter grades will be assigned as follows:

- A  90 - 100%
- B  80 - 89%
- C  70 - 79%
- D  60 - 69%
- F  < 60%

Letter grades may be curved.

In-class work: Class-time activity will focus on solving problems in groups or alone, including homework problems. You will turn in and get credit for the work you accomplish in class: attendance is important! Groups for in-class work will be organized about every other week. I will call on individuals to present work during class.

You will need to buy a scientific lab notebook with carbonless copies at the bookstore or elsewhere. You’ll work the in-class problems during class and turn in carbon copies of problems at the end of class. The in-class work you turn in needs to be reasonably legible. The in-class work is graded as follows.

- 10 points for satisfactory
- 0 points for half-hearted effort
- -10 points for nothing turned in, allowed up to 1 no-turn-in without penalty

Homeworks. The homework assignments will be assigned and due on according to dates posted in the "schedule" page of the Blackboard site or as modified from time to time by the instructor. Homework assignments usually will consist of multiple, relatively short calculation problems.

Each student will turn in the homework assignments on their own. The homework assignments that you turn in are intended to represent your own work. I encourage you to work together in terms of understanding problems, and helping each other learn the material, but the actual work should be yours alone. Late homework assignments will be penalized 20% per day late. Once a homework assignment has been graded and returned, no further homework will be accepted for that assignment. The instructor may assign a failing grade to any student not turning in 75% of the homework assignments for this course.

Homework assignments will be submitted for grading via Blackboard as a single Word or pdf document. I strongly suggest that you submit your work with plenty of time to spare in the event that you have a technical issue with the course website, network, and/or your computer. If you are experiencing difficulties submitting your work through the course website, please contact the UTEP Help Desk. You can email me your documents as a last resort.

Exams. Two midterm exams and a final exam will be given. The exams will cover material from the lectures and homework assignments. You will be given equation sheets and lists of concepts
related to each exam in advance of the exams. Midterm exams will be held during class time (see Course schedule). Exam grading will not be revised beyond one week after the graded homework is handed back. Students are responsible for informing the instructor of any conflict with the exam schedule so that, if possible, alternative dates can be agreed upon by the class. Makeup exams will only be given in the case of a documented emergency.

TECHNOLOGY REQUIREMENTS
A few times during the semester, the course content will be delivered via the Internet through Zoom for class lectures. Ensure that your UTEP e-mail account is working and that you have access to the Web and a stable web browser. When having technical difficulties, update your browser, clear your cache, or try switching to another browser.

You will need to have access to a computer/laptop, scanner/phone camera, a webcam, and a microphone. You will need to download or update the following software: Microsoft Office and Adobe Acrobat Reader. Check that your computer hardware and software are up-to-date and able to access all parts of the course. You can download Microsoft Office programs (including Word, Excel, PowerPoint, Outlook and more) for free via UTEP’s Microsoft Office Portal. Click the following link for more information about Microsoft Office 365 and follow the instructions.

If you encounter technical difficulties beyond your scope of troubleshooting, please contact the UTEP Help Desk as the Help Desk staff are trained specifically in assisting with technological needs of students.

COURSE COMMUNICATION
• **Office Hours**: My office hours will be held Tuesday, Wednesday, and Thursday 12:00-1:00 in-person at my office or on Zoom using this [link](#).

• **Email**: UTEP e-mail is the best way to contact me. I will make every attempt to respond to your e-mail within 24-48 hours of receipt. When e-mailing me, be sure to email from your UTEP student account and please put the course number in the subject line. In the body of your e-mail, clearly state your question.

• **Announcements**: Check the Blackboard announcements frequently for any updates, deadlines, or other important messages.

ATTENDANCE AND PARTICIPATION
Your participation in the course lectures is important not only for your learning and success but also to create a community of learners. As we know, sometimes communication can be challenging. It’s possible to miscommunicate what we mean or to misunderstand what our classmates mean. Therefore, please keep these etiquette guidelines in mind. Failure to observe them may result in disciplinary action.

  o Always consider audience. All communication should reflect polite consideration of other’s ideas.

  o Respect and courtesy must be provided to classmates and to the instructor at all times. No harassment or inappropriate postings will be tolerated.

  o When reacting to someone else’s comments or responses to questions, address the ideas, not the person. Post only what anyone would comfortably state in a face-to-face situation.

  o Blackboard is not a public internet venue; all postings to it should be considered private and confidential. Whatever is posted on in these online spaces is intended for classmates and professor only. Please do not copy documents and paste them to a publicly accessible website, blog, or other space.
ACCOMMODATIONS POLICY
The University is committed to providing reasonable accommodations and auxiliary services to students, staff, faculty, job applicants, applicants for admissions, and other beneficiaries of University programs, services and activities with documented disabilities in order to provide them with equal opportunities to participate in programs, services, and activities in compliance with sections 503 and 504 of the Rehabilitation Act of 1973, as amended, and the Americans with Disabilities Act (ADA) of 1990 and the Americans with Disabilities Act Amendments Act (ADAAA) of 2008. Reasonable accommodations will be made unless it is determined that doing so would cause undue hardship on the University. Students requesting an accommodation based on a disability must register with the UTEP Center for Accommodations and Support Services (CASS). Contact the Center for Accommodations and Support Services at 915-747-5148, or email them at cass@utep.edu, or apply for accommodations online via the CASS portal.

SCHOLASTIC INTEGRITY
Academic dishonesty is prohibited and is considered a violation of the UTEP Handbook of Operating Procedures. It includes, but is not limited to, cheating, plagiarism, and collusion. Cheating may involve copying from or providing information to another student, possessing unauthorized materials during a test, or falsifying research data on laboratory reports. Plagiarism occurs when someone intentionally or knowingly represents the words or ideas of another as one's own. Collusion involves collaborating with another person to commit any academically dishonest act. Any act of academic dishonesty attempted by a UTEP student is unacceptable and will not be tolerated. All suspected violations of academic integrity at The University of Texas at El Paso must be reported to the Office of Student Conduct and Conflict Resolution (OSCCR) for possible disciplinary action. To learn more, please visit HOOP: Student Conduct and Discipline.

CLASS RECORDINGS
The use of recordings will enable you to access to class lectures. Our use of such technology is governed by the Federal Educational Rights and Privacy Act (FERPA) and UTEP’s acceptable-use policy. A recording of class sessions will be kept and stored by UTEP, in accordance with FERPA and UTEP policies. Your instructor will not share the recordings of your class activities outside of course participants, which include your fellow students, teaching assistants, or graduate assistants, and any guest faculty or community-based learning partners with whom we may engage during a class session. You may not share recordings outside of this course. Doing so may result in disciplinary action.

COPYRIGHT STATEMENT FOR COURSE MATERIALS
All materials used in this course are protected by copyright law. The course materials are only for the use of students currently enrolled in this course and only for the purpose of this course. They may not be further disseminated.

COVID-19 PRECAUTIONS
Please stay home if you have been diagnosed with COVID-19 or are experiencing COVID-19 symptoms. If you are feeling unwell, please let me know as soon as possible, so that we can work on appropriate accommodations. If you have tested positive for COVID-19, you are encouraged to report your results to covidaction@utep.edu, so that the Dean of Students Office can provide you with support and help with communication with your professors. The Student Health Center is equipped to provide COVID-19 testing.
The Center for Disease Control and Prevention recommends that people in areas of substantial or high COVID-19 transmission wear face masks when indoors in groups of people. The best way that Miners can take care of Miners is to get the vaccine. If you still need the vaccine, it is widely available in the El Paso area, and will be available at no charge on campus during the first week of classes. For more information about the current rates, testing, and vaccinations, please visit epstrong.org.

UNIVERSITY RESOURCES
UTEP provides a variety of student services and support:

Technology Resources
- Help Desk: Students experiencing technological challenges (email, Blackboard, software, etc.) can submit a ticket to the UTEP Helpdesk for assistance. Contact the Helpdesk via phone, email, chat, website, or in person if on campus.

Academic Resources
- UTEP Library: Access a wide range of resources including online, full-text access to thousands of journals and eBooks plus reference service and librarian assistance for enrolled students.
- University Writing Center (UWC): Submit papers here for assistance with writing style and formatting, ask a tutor for help and explore other writing resources.
- Math Tutoring Center (MaRCS): Ask a tutor for help and explore other available math resources.
- History Tutoring Center (HTC): Receive assistance with writing history papers, get help from a tutor and explore other history resources.
- RefWorks: A bibliographic citation tool; check out the RefWorks tutorial and Fact Sheet and Quick-Start Guide.

Individual Resources
- Military Student Success Center: Assists personnel in any branch of service to reach their educational goals.
- Center for Accommodations and Support Services: Assists students with ADA-related accommodations for coursework, housing, and internships.
- Counseling and Psychological Services: Provides a variety of counseling services including individual, couples, and group sessions as well as career and disability assessments.