

UNIVERSITY OF TEXAS AT EL PASO
ENVIRONMENTAL ENGINEERING FUNDAMENTAL
SYLLABUS
FALL 2023

COURSE INFORMATION:

CE 2385 CRN 12696

CLASS TIME: MWF 12:30 AM – 03:20 PM

CLASS MODE: IN CLASSROOM

CLASS MEETING PLACE	Geology Building RM 123
INSTRUCTOR:	Dr. Henry Van
INSTRUCTOR'S OFFICE NUMBER/BUILDING	Civil Engineering Room A202
OFFICE HOURS (Dr. Van's)	Tue. - 08:30 AM – 11:30 AM & 1:00 PM – 5:00 PM Wed.- 8:00 AM – 11:30 AM Thu. - 8:00 AM – 11:30 AM & 1:00 AM – 5:00 PM Fri. - 8:00 AM – 11:30 AM & 1:00 AM – 5:00 PM
PHONE:	Cell: 915-255-9593 (preferred)
EMAIL:	hvan2@utep.edu
TEACHING ASSISTANT (TA):	Mr. Jose S. Rodriguez
TA OFFICE	E210
PHONE	TBD
OFFICE HOURS	M,T,W (11:00 AM – 12:30)
EMAIL	jrodriguez@miners.utep.edu
LIBRARIAN:	Debjani Mukhopadhyay dmukhopadhyay@utep.edu
TEXTBOOK: No TEXTBOOK	<i>Dr. H. Van's His Course Slides</i>

UNIVERSITY OF TEXAS AT EL PASO
ENVIRONMENTAL ENGINEERING FUNDAMENTAL
SYLLABUS
FALL 2023

OTHER MATERIALS NEEDED:

- One three ring binder or notebook for readings/handouts, class notes, assignments and/or journal entries.
- Access to computer or laptop.
- Scientific calculator.

MATERIALS PROVIDED – POWERPOINT SLIDES & LINKS TO TECHNICAL VIDEOS

- **PowerPoint Slides** of professor's lessons will be provided in the Blackboard course website.
- Links of places for further reading suggestions in the Blackboard course website.
- **Links for Videos** to further explain topics will be provided. It is critical that you study these videos because they are carefully selected to further clarify technical topics and give excellent photos, diagrams and moving systems that will give you very good understanding of how these process systems operate.

COURSE DESCRIPTION

The course is designed to be a survey of various areas that broadly fall under the umbrella of environmental engineering. Many of the topics taught are covered in much more detail in other courses, such as water and wastewater engineering, hydraulic and hydraulic structures, air pollution control, and solid waste management. For successful completion of this course, I expect the students to understand persistent and emerging environmental issues and have a sound understanding of material balance, including how processes work. You will be shown the importance of unit conversions. Further, after completion of this course, students should be able to understand basic considerations in water resources management, water pollution control, water treatment and reclamation, air pollution sources and controls, and solid waste management. Also, key environmental laws and regulations will be discussed to provide you with an understanding of why environmental treatment processes apply. A brief summary of what environmental compliance management is will be provided. There will be discussion of what environmental investigation and remediation is and why they are critical to the regulatory and business sectors.

UNIVERSITY OF TEXAS AT EL PASO
ENVIRONMENTAL ENGINEERING FUNDAMENTAL
SYLLABUS
FALL 2023

COURSE OBJECTIVES AND LEARNING OUTCOMES

After completing the course, students should be able to:

- Define and describe the role of Environmental Engineers in identifying and solving problems related to human interaction with the environment (Including regulations development and compliance).
- Assess the impact of human activity on the environment (e.g., environmental risk and impact assessment).
- Explain the main concepts and principles that are used to understand and analyze problems related to Environmental and Water Resources Engineering (e.g., design of environmental engineering solutions applicable to real world situations, use of risk assessment in environmental engineering compliance management, transport processes, water resources, design parameters, remediation of contaminated sites, negotiating with regulatory agencies permit and remediation project, etc.).
- Apply scientific and engineering principles for the quantitative analysis of environmental systems (e.g., environmental sampling design and data analysis).
- Learn about the processes and operations aimed at decreasing the effects of pollution in the air, water, and land systems.
- Illustrate the impact of engineered systems on the environment and apply current engineering technologies to protect the environment (water, air, and soil).
- Begin synthesizing data to develop solutions to complex environmental problems such as compliance with rigorous laws and regulations.

STUDENT CONDUCT

All students are expected and required to obey federal, state, and local laws, to comply with the Regents' Rules and Regulations, with The University of Texas System and University rules and regulations, with directives issued by an administrative official of the U.T. System or The University of Texas at El Paso in the course of his or her authorized duties, and to observe standards of conduct appropriate for an academic institution.

UNIVERSITY OF TEXAS AT EL PASO

ENVIRONMENTAL ENGINEERING FUNDAMENTAL

SYLLABUS

FALL 2023

SYLLABUS CHANGE POLICY

Except for changes that affect the evaluation (grading) statement, this syllabus is a guide for the course and is subject to change with advance notice. I will keep you informed if it is necessary for me to make changes to the syllabus and will explain the reasons.

UTEP FINAL EXAM POLICY

Exemption from final examinations cannot be given. Final examinations are scheduled to be two hours, forty-five (45) minutes in length and take place during the final examination period. It is the policy of the University not to administer a second final examination in a course. It is also University policy that students shall not have more than two final examinations in a single day. In the unlikely event that the examination schedule results in a student having three final examinations on a single day, the faculty member upon the request of the student shall reschedule the second of that student's three examinations.

COPYRIGHT STATEMENT

Some of the materials in this course are copyrighted. Violation of US copyright law can result in civil damages of up to \$100,000 for each work copied. Copying of textbooks are not "fair use" under the Copyright Act. The "fair use doctrine" only permits non-commercial copying of part (in general, not more than 10%) of a copyrighted work. Do not bring a copied textbook to this class. Your cooperation is expected.

GRADING:	3 Exams	45%
	Final Exam	20%
	Project Rept. in Power Point	20%
	Participation, and survey	<u>15%</u>
		100%

SEMESTER

PROJECT: The project will be a team process design engineering project. More information and deadlines about the project will be given at later in a separate Word document.

UNIVERSITY OF TEXAS AT EL PASO

ENVIRONMENTAL ENGINEERING FUNDAMENTAL

SYLLABUS

FALL 2023

You will be divided into Teams to work on your project. The teams will be formed by Dr. H. Van. Dr. Van will also appoint the Team Lead (TL)

The TL will manage the team and will assign the task(s) that each team member needs to do. The TL will report the performance of the team member to Jose S. Rodriguez (TA).

Any team member that does not collaborate good with the Team will be deducted points from their project grade.

Technical Questions about the project first will be directed to Jose S. Rodriguez first. If he cannot answer your question(s) then he will consult with Dr. Van.

No team member can work on their own on the project. The reason is that the project needs to be done with team collaboration. The team member that does not working with her/his team will be given a zero for the project.

PROJECT SUBMITTAL:

The project report will be submitted to your Teaching Assistant on Friday, November 10, '21 end of day.

EXAMS AND

FINAL EXAM: Students will be given 3 Exams and 1 Final exam. The exams will be multiple choice and will be set up to be taken via Blackboard. You are required to take the exams and final exam on time. If you have issues and cannot take the exams when indicated, you need to speak with your Jose S. Rodriguez to have the approval to give you the extension. Jose will consult Dr. Van when necessary to clarify the reasons for giving extension to take an exam at another time. Your reason for requesting an extension should be properly justified.

CLASS PARTICIPATION AND ACTIVITIES:

You are expected to participate in class discussions about the diverse topics Dr. Van and Jose will be lecturing and Dr. Van will be presenting case histories.

UNIVERSITY OF TEXAS AT EL PASO
ENVIRONMENTAL ENGINEERING FUNDAMENTAL
SYLLABUS
FALL 2023

COURSE SURVEY: There will be an end-of-semester survey sent to you by UTEP System. Your participation is important, and it will count as one point toward your final grade.

GRADING SCALE:

100%-90%..... A
89% -80%.....B
79% -70%.....C
69% -60%.....D
59% - 0%..... F

ATTENDANCE: You are required to come to class and be on time. Attendance is especially important since during class you will be given the tools needed to successfully complete this class. You must contact Hector Chacon or Instructor if you know you will be absent either by phone or email. It is your responsibility to get all the lecture notes, assignments, and hand-outs you missed. An excused absence will only be given as described in the undergraduate catalog. **Please keep in mind that you will be dropped after 6 unexcused absences.** However, if you want to be dropped at any time, you must contact your professor and TA.

MENTORING: If you wish you can meet on a “**One-on-One**” mentoring session with you Dr. Van to provide guidance in looking for a job, internship, and other career needs or questions you may have in mind. Please schedule directly with Dr. Van a meeting to talk about your issues.

MISSING ASSIGNMENTS AND EXAMS:

You will be allowed one make-up homework assignment during the course of the semester provided you show proper reason(s). If you need to makeup an exam you need to show your Jose S. Rodriguez proper proof that you need to makeup the exam. The Hector Chacon can also decide to discuss your case with Dr. Van.

UNIVERSITY OF TEXAS AT EL PASO
ENVIRONMENTAL ENGINEERING FUNDAMENTAL
SYLLABUS
FALL 2023

ACADEMIC CONDUCT:

Academic dishonesty will not be tolerated. You must submit your work only. If you are found to be cheating or plagiarizing, you will be subject to disciplinary action, per UTEP catalog policy (<http://www.utep.edu/dos/acadint.htm>).

CELL PHONE: All cell phones must be turned off or on vibrate before the beginning of the class. If a student starts using his/her cell phone during class, he/she will have to leave the classroom and may only return with the instructor's permission.

HARASSMENT: Please be aware that harassment is unacceptable in the classroom. No jokes, comments of sexual nature as well as racism will be tolerated. The student that uses harassment will be sent to the Dean of students for disciplinary action.

SCHOLASTIC DISHONESTY

Any student who commits an act of scholastic dishonesty is subject to discipline. Scholastic dishonesty includes but is not limited to cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts.

STUDENTS WITH DISABILITIES POLICY

Students with Disabilities Policy: If you have or suspect a disability and need an accommodation, you should contact the Center for Accommodations and Support Services at (915) 747-5148 or at cass@utep.edu or go to Room 106 Union East Building.

UNIVERSITY OF TEXAS AT EL PASO

ENVIRONMENTAL ENGINEERING FUNDAMENTAL

SYLLABUS

FALL 2023

ACADEMIC CALENDAR FALL 2023 DATES:

Mar 27th	Fall Registration Begins
Aug 17th	Last Day to Clear Students on Suspension/Probation as well as those with Insufficient Prerequisites
Aug 18th	Drops for Students with Unsatisfactory Academic Standing, Insufficient Prerequisites, and Prior Grades of C in the Course
Aug 21st	Financial Aid is Disbursed
Aug 28	Fall Classes Begin
Aug 28th-Sept 1st	Late Registration (Fees are incurred)
Sept 4th	Labor Day Holiday – University Closed
Sept 13th	Fall Census Day
	Note: This is the last day to register for classes. Payments are due by 5:00 pm.
Sept 25th	20 th Class Day
	Note: Students who were given a payment deadline extension will be dropped at 5:00 if payment arrangement have not been made.
Oct 6th	Graduation application deadline for degree conferral
Nov 3rd	Fall Drop/Withdrawal Deadline
	Note: Student-initiated drops are permitted after this date, but the student is not guaranteed a grade of W. The faculty member of record will issue a grade of either W or F .

UNIVERSITY OF TEXAS AT EL PASO
ENVIRONMENTAL ENGINEERING FUNDAMENTAL
SYLLABUS
FALL 2023

Nov 17th	Deadline to submit candidates' names for commencement program
Nov 23rd-24th	Thanksgiving Holiday- University Closed
Dec 7th	Fall- Last day of Classes
Dec 8th	Dead day
Dec 11th - 15th	Fall Final Exams
Dec 16th-17th	Fall Commencement
Dec 19th	Grades are due
Dec 20th	Grades are posted to student records; students are notified of grades and academic standing
Payment Deadlines	For more information on payment deadlines, visit the <u>Student Business Services Website</u>