

# FALL 2021      MATH 2313 CRN 11222      CALCULUS 3

Dr. L. Valdez-Sanchez    [lv sanzhez@utep.edu](mailto:lv sanzhez@utep.edu)

**TR 10:30 am – 11:50 am    LART 103**

**PREREQUISITES:** MATH 1312. Students are assumed to be proficient on all prerequisites

**Office Hours:** Bell Hall 222 MW 10:30-11:20 am, and TR 1:30-2:20 pm, or by appointment

## COURSE DESCRIPTION / OBJECTIVES

Continuation of MATH 1312. Topics include solid analytic geometry, partial differentiation, and multiple integration. We will cover chapters 11 through 14 of the required textbook in detail.

At the end of the course the student will be expected to be able to solve a wide range of problems by using the critical thinking skills and understanding gained through the lectures to pick the correct tools, results or methods as developed in the course.

## REQUIRED MATERIALS

The course is organized by following the presentation of the material in **Chapters 11-14** of the textbook:

***MATH 2313 – Calculus III (University of Texas at El Paso – CENGAGE), by R. Larson and B. Edwards, 11<sup>th</sup> ed. Or full version of Calculus, by R. Larson and B. Edwards, 11<sup>th</sup> ed. (An earlier edition may be used but user is responsible to make up for any differences in content)***

## SUGGESTED FREE MATERIALS

*Vector Calculus* by Corral at [MecMath](#) or [LibreTexts](#)

*Calculus* by Strang at [LibreTexts](#)

These free textbooks can be used as alternate sources of examples with solutions and practice exercises.

**We will use WEBASSIGN for homework.** To enroll in WEBASSIGN (or gain access to your ebook) go to <https://www.webassign.net> and input the following information:

Instructor	Section	Class Key
<b>Luis Valdez-Sanchez</b>	<b>Math 2313, section 007</b>	<b>utep 3610 0925</b>

The institution is UTEP. You will need your UTEP Student ID to enroll. Information about types of access codes can be found here: [Webassign Access Codes](#)

An extra list of Suggested homework problems from the textbook is provided in Blackboard.

## COURSE ASSIGNMENTS AND GRADING

--Homework for each section is available through WEBASSIGN.

--There will be two midterm exams and a final exam (see schedule at end of Syllabus).

-- Partial/full credit will be given to solutions of exam problems only when procedures discussed in the lectures are used and justifications for steps are provided.

-- The final exam will be comprehensive and include material from chapters 11-14.

--General instructions for homework can be found at the end of this Syllabus.

Each midterm exam is worth 25%, homework is worth 15%, and the final exam is worth 35%. Grades will be assigned as follows: A $\geq$ 90; B $\geq$ 80, C $\geq$ 70, D $\geq$ 60, F $<$ 60.

The course grade will be the total grade obtained by combining midterms, homework and final exam points, or a C if the total grade is  $<$  70 and the final exam grade is  $\geq$ 70.

A course grade of F will be assigned when the final exam is missing.

Academic performance on the items indicated above will be the only factor used to determine course grades. No extra credit work is available.

## SPECIAL DATES

- September 6            Labor Day Holiday (University closed)
- October 29            Drop/Withdrawal Deadline: **No drops will be authorized after this date.**
- November 25-26      Thanksgiving Holiday (University closed)

## 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](mailto: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](http://epstrong.org)

## COURSE COMMUNICATION

- **Office Hours**
- **Email: When e-mailing me, be sure to email from your UTEP student account and include the course number and class meeting time in the subject line.** In the body of your e-mail, clearly state your question. At the end of your e-mail include your first and last name, and your university identification number.
- **Announcements:** Check the Blackboard announcements frequently for any updates, deadlines, or other important messages.

## NETIQUETTE

As we know, sometimes communication online can be challenging. It's possible to miscommunicate what we mean or to misunderstand what our classmates mean given the lack of body language and immediate feedback. Therefore, please keep these netiquette (network etiquette) guidelines in mind. Failure to observe them may result in disciplinary action.

- Always consider audience. This is a college-level course; therefore, all communication should reflect polite consideration of other's ideas.
- Respect and courtesy must be provided to classmates and to the instructor at all times. No harassment or inappropriate postings will be tolerated.
- When reacting to someone else's message, address the ideas, not the person. Post only what anyone would comfortably state in a face-to-face situation.
- 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. **Do not copy documents and paste them to a publicly accessible website, blog, or other space.**

## 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.**

## ATTENDANCE AND PARTICIPATION

Attendance in the course is determined by participation in the lectures and learning activities of the course. Your participation in the course is important not only for your learning and success but also to create a community of learners. Participation is accomplished by Reading/Viewing all course materials to promote their understanding. **It is also strongly recommended attending the lectures where questions can be asked directly.**

## COURSE DROP POLICY

According to UTEP Curriculum and Classroom Policies, “When, in the judgment of the instructor, a student has been absent to such a degree as to impair his or her status relative to credit for the course, the instructor may drop the student from the class with a grade of “W” before the course drop deadline and with a grade of “F” after the course drop deadline.” See academic regulations in the UTEP Undergraduate Catalog for a list of excused absences. **Therefore, if I find that you are at risk of failing due to non-performance in the course, including excessive absence, neglect, or lack of effort (for example, after missing 3 quizzes or 1 midterm without communicating with the instructor and providing an academically valid excuse), I may drop you from the course.**

If you feel that you are unable to complete the course successfully, please let me know and then contact the [Registrar’s Office](#) to initiate the drop process. If you do not, you are at risk of receiving an “F” for the course.

## MAKE-UP WORK

The final exam cannot be made up. Make-up midterms will be given *only* in the case of a *documented* academically valid reason. Note that make-up work may require more intensive preparation and may be graded with penalty points. If you miss a test and the reason is not considered excusable, you will receive a zero. It is therefore important to reach out to me—in advance if possible—and explain with proper documentation why you missed a given course examination. Once a deadline has been established for make-up work, no further extensions or exceptions will be granted.

## INCOMPLETE GRADE POLICY

Incomplete grades may be requested only in exceptional circumstances after you have completed the two midterm exams and before taking the final exam. Talk to me immediately if you believe an incomplete is warranted. If granted, we will establish a contract of work to be completed with deadlines.

## 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](mailto: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](#).

## COURSE 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.
- [Math Tutoring Center \(MaRCS\)](#): Ask a tutor for help and explore other available math resources.

### 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.

## Weekly Calendar (Subject to Change)

This calendar provides an overview of the course. Any changes to the schedule will be announced in class and Blackboard (a week in advance in the case of midterm dates).

Week of	Topics	See WEBASSIGN for HW and due dates
8/23 - 8/29	Syllabus 11.1 – 11.2	
8/30 - 9/5	11.3 – 11.4	

9/6 – 9/12	11-5 – 11.6	
9/13 – 9/19	12.1 – 12.4	
9/20 – 9/26	<b>Midterm 1</b> 13.1 – 13.2	
9/27 – 10/3	13.3 – 13.4	
10/4 – 10/10	13.5 – 13.6	
10/11 - 10/17	13.7 – 13.8	
10/18 – 10/24	13.9 – 13.10	
10/25 – 10/31	<b>Midterm 2</b> 14.1 – 14.2	
11/1 – 11/7	14.2 – 14.3	
11/8 – 11/14	14.3 – 14.4	
11/15 – 11/21	14.5 - 14.6	
11/22 – 11/28	11.7 14.6 – 14.7	
11/29 – 12/5	14.7 – 14.8	
<b>THURS 12/9</b> <b>10:00-12:45 pm</b>	<b>FINAL EXAM</b>	

### Homework problems instructions.

1. Homework will be assigned and graded through WEBASSIGN.
2. You should aim at practicing on as many textbook exercises as possible, even those that do not appear as WEBASSIGN homework problems or in the list of Suggested homework problems (Blackboard).
3. Work on homework exercises on your own before seeking help in solving them, otherwise you will not benefit as much from this activity.
4. You will only learn the material by doing it yourself, not by just watching others do it: *mathematics is not a spectator's game.*
5. Ideally, you should ask any questions about the homework problems in person, either in class or during office hours. Otherwise, after working on a problem for some time on your own, you may ask me a question via email and include a scan of your work.
6. More solved examples and exercises can be found in the free Suggested Textbooks given in the syllabus.