THE UNIVERSITY OF TEXAS AT EL PASO
COLLEGE OF SCIENCE
DEPARTMENT OF MATH

Course #: M 2313  CRN 26769
Course Title: Calculus III
Credit Hrs: 3
Term: Spring 2023
Course Meetings & Location: Online class

Prerequisite Courses: Math 1312 with a grade of at least C or appropriate placement scores.

Instructor: Dr. Rocio Gallardo
Office Location: Bell Hall 130E
Contact Info: (915) 801-2994 Cell Phone
E-mail address regallardo@utep.edu
Emergency Contact: (915)-801-2994

Office Hrs: MW 12:00 pm to 1:00 pm
Textbook(s), Materials:
Required:
Calculus by Larson, 11th Edition (available as e-book and hardcover)
We recommend purchasing one of the Lifetime of Edition option.

Required: Basic Scientific Calculator (a calculator without graphing, derivative or integration capabilities)

Course Objectives (Learning Outcomes): Students are expected to have a clear understanding of the ideas of Calculus as a solid foundation for subsequent courses in mathematics and other disciplines as well as for direct application to real life situations.

Course Activities/Assignments: You will find all assignments on http://webassign.net/ . Please use Mozilla Firefox, or Google Chrome since WebAssign works best with these browsers. Unannounced quizzes may be administered in the classroom.

Class Key utep 1988 7453
Assessment:

Grading Policy: Your grade will be calculated as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>WebAssign</td>
<td>10%</td>
</tr>
<tr>
<td>Quizzes</td>
<td>10%</td>
</tr>
<tr>
<td>Exam 1</td>
<td>15%</td>
</tr>
<tr>
<td>Exam 2</td>
<td>15%</td>
</tr>
<tr>
<td>Exam 3</td>
<td>15%</td>
</tr>
<tr>
<td>Exam 4</td>
<td>15%</td>
</tr>
<tr>
<td>Comprehensive Final</td>
<td>20%</td>
</tr>
</tbody>
</table>

The grading scale for this course is:
90 – 100 = A
80 – 89 = B
70 – 79 = C
60 – 69 = D
0 – 59 = F.

Academic Calendar:

**Jan 17th**
Spring classes begin

**Jan 17th-20th**
Late Registration (Fees are incurred)

**Feb 1st**
Spring Census Day
Note: This is the last day to register for classes. Payments are due by 5:00 pm.

**Feb 13th**
20\textsuperscript{th} Class Day
Note: Students who were given a payment deadline extension will be dropped at 5:00 pm if payment arrangements have not been made.

**Feb 17th**
Graduation application deadline for degree conferral

**Mar 13th-17th**
Spring Break

**Mar 30th**
Spring 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.

**Mar 31st**
Cesar Chavez Holiday - No classes

**Apr 7th**
Spring Study Day

**Apr 14th**
Deadline to submit candidates’ names for commencement program

**May 4th**
Spring – Last day of classes
May 5th  
Dead day

May 8-12th  
Spring Final Exams

May 13-14th  
Spring Commencement

May 17th  
Grades are Due

May 18th  
Grades are posted to student records; students are notified of grades and academic standing

Academic Integrity Policy: The University policy is that all suspected cases or acts of alleged scholastic dishonesty must be referred to the Dean of Students for investigation and appropriate disposition. 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. Each student is responsible for notice of and compliance with the provisions of the Regents’ Rules and Regulations, which are available for inspection electronically at http://www.utsystem.edu/bor/rules/homepage.htm

All students are expected and required to obey the law, to comply with the Regents’ Rules and Regulations, with System and University rules, with directives issued by an administrative official in the course of his or her authorized duties, and to observe standards of conduct appropriate for the University. A student who enrolls at the University is charged with the obligation to conduct himself/herself in a manner compatible with the University’s function as an educational institution.

Any student who engages in conduct that is prohibited by Regents’ Rules and Regulations, U. T. System or University rules, specific instructions issued by an administrative official or by federal, state, or local laws is subject to discipline, whether such conduct takes place on or off campus or whether civil or criminal penalties are also imposed for such conduct.
Civility Statement: Calculators may not be used during quizzes and exams. Please do not use cell phones, pagers, IPods, MP3 players, blue tooth devices, etc. during class. Cell phones and pagers should be set to silent or vibrate, and any calls should be taken outside of class. Please do not wear headsets or blue tooth devices during class. Please don’t talk in class. Cell phone calculators may not be used on quizzes or exams. Active participation in class is expected, teamwork in class will be implemented.

Disability Statement: If a student has or suspects she/he has a disability and needs an accommodation, he/she should contact The Center for Accommodations and Support services (CASS) at 747-5148 or at <cass@utep.edu> or go to Room 106 Union East Building. The student is responsible for presenting to the instructor any CASS accommodation letters and instructions.
Military Statement: If you are a military student with the potential of being called to military service and/or training during the semester, please contact me by the end of the first week of class.
<table>
<thead>
<tr>
<th>Week</th>
<th>Dates</th>
<th>Lesson Covered</th>
<th>Section Titles</th>
</tr>
</thead>
</table>
11.2 - Space Coordinates and Vectors in Space  
11.3 - The Dot Product of Two Vectors |
| 2    | Jan. 23 – Jan. 29 | 11.4, 11.5 | 11.4 – The Cross Product of Two Vectors in Space  
11.5 - Lines and Planes in Space |
| 3    | Jan. 30 – Feb. 5 | 11.5, 11.6, 11.7 Quiz 1 | 11.5 - Lines and Planes in Space  
11.6 - Surfaces in Space  
11.7 - Cylindrical and Spherical Coordinates |
| 4    | Feb. 6 – Feb. 12 | Review, Test 1, 12.1 | 12.1 - Vector-Valued Functions |
| 5    | Feb. 13 – Feb. 19 | 12.2,12.3,12.4 Quiz 2 | 12.2 - Differentiation and Integration of Vector-Valued Functions  
12.3 - Velocity and Acceleration  
12.4 - Tangent Vectors and Normal Vectors |
| 6    | Feb. 20 – Feb. 26 | 12.5, Review, Test 2 | 12.5 - Arc Length and Curvature |
| 7    | Feb. 27 – March 5 | 13.1,13.2,13.3 | 13.1 - Introduction to Functions of Several Variables  
13.2 - Limits and Continuity  
13.3 - Partial Derivatives |
| 8    | March 6 – March 12 | 13.4,13.5,13.6 | 13.4 – Differentials  
13.5 - Chain Rules for Functions of Several Variables  
13.6 - Directional Derivatives and Gradients |
| March 13 – March 19 | **SPRING BREAK** | | |
| 9    | March 20 – March 26 | Quiz 3  
13.7, Review, Test 3 | 13.7 - Tangent Planes and Normal Lines |
| 10   | March 27 – April 2 **March 31** – **Institutional Holiday (No Class)** **March 30** – Last Day to DROP with a “W” | 13.8,13.9,13.10 | 13.8 - Extrema of Functions of Two Variables  
13.9 - Applications of Extrema of Functions of Two Variables  
13.10 - Lagrange Multipliers |
| 11   | April 3 – April 9 **April 7** – **Study Day (No Class)** | 14.1,14.2 | 14.1 - Iterated Integrals and Area in the Plane  
14.2 - Double Integrals and Volume |
| 12   | April 10 – April 16 **April 14** – Last Day to DROP with a “W” | 14.3 | 14.3 - Change of Variables: Polar Coordinates |
| 13   | April 17 – April 23 | 14.4,14.5,14.6 | 14.4 - Center of Mass and Moments of Inertia  
14.5 - Surface Area  
14.6 - Triple Integrals and Applications |
| 14   | April 24 – April 30 | 14.7 Quiz 4  
Review, Test 4 | 14.7 - Triple Integrals in Other Coordinates |
| 15   | May 1 – May 7 | Review | |
| 16   | May 8 – May 12 | Final Exam | |

**The final exam date is:**____________________________