

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


Course #: M1411 (CRN: 24451)
Course Title: Calculus I
Credit Hrs: 4
Term: Spring 2017
Course Meetings & Location: TR 6:00pm – 7:50pm LART 103
Prerequisite Courses: Math 1508 with a grade of at least C or appropriate placement scores.

Instructor: Francisco Avila
Office Location: Library 521
Contact Info: 747-8752
E-mail address: favila2@utep.edu
Emergency Contact: (915)747-5761 (Math Department)
Office Hrs: MW 4:30 -5:50pm or by appointment

Textbook(s), Materials: Required: Calculus by Larson, 10th 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.

Assessment of Course Objectives: There will be 3 exams and one comprehensive final. These are departmental exams and to be taken in class during the assigned date as found on the calendar. **NO EXTRA CREDIT OR CURVES ON EXAMS. NO REPLACEMENT OF EXAM WITH FINAL EXAM.** A Retake Exam, for improvement, will be administered in the library after exam 1, 2 and 3. The best grade will be recorded for student grade.

To register for a retake exam go to <http://www.math.utep.edu/classes/retake/>. Failure to register means that you may not take this optional exam. Students must attempt the written exams, failure to take the first two written exam will result in the student to be dropped from this class.

If a student receives a grade of D or F, they may register for Maymester or take a comprehensive TestOut exam after Maymester. A grade of 70% or better on the comprehensive Maymester exam or a 70% or better on the TestOut exam will replace a failing course grade with a grade of C. (A grade change form will be signed and submitted by the coordinator for Pre-Calculus, Mr. Julian Viera.).

Grading Policy: Your grade will be calculated as follows:

WebAssign	10%
Quizzes	15%
Exam 1	15%
Exam 2	15%
Exam 3	15%
Comprehensive Final	30%

The grading scale for this course is:

90 – 100 = A

80 – 89 = B

70 – 79 = C

60 – 69 = D

0 – 59 = F.

The Drop Date for this semester is Thursday March 30, 2017. No drops will be approved after this date.

Make-up Policy: No makeup exams will be allowed except with proper documentation, i.e. doctor's note, hospital's note, or UTEP excused absence document.

Attendance Policy: Students must attend every class. Students are to arrive on time to class. It is the student's responsibility to find out what assignment must be made up when they are absent.

Civility Statement: Calculators may not be shared 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.

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.

Military Statement: If you are a military student with the potential of being called to military service and /or training during the course of the semester, you must contact me as soon as possible **before** you leave.

Disability Statement: If a student has or suspects she/he has a disability and need classroom accommodations, please contact The Center for Accommodations and Support Services (CASS) at 747-5148, or by email to cass@utep.edu, or visit their office located in UTEP Union East, Room 106. The student is responsible for presenting to the instructor any CASS accommodation letters and instructions. For additional information, please visit the CASS website at www.utep.edu/CASS. *CASS' Staff are the only individuals who can validate and if need be, authorize accommodations for students with disabilities.*

Webpage's for PreCalculus: Visit our website and read the course information thoroughly at <http://www.math.utep.edu/classes/calculus/>

or find us on facebook for information and News
<http://www.facebook.com/pages/UTEP-PreCalculusCalculus/180583381999326>

Course Schedule:

Material for Exam 1: Chapter 1 and Chapter 2 upto 2.5			
Date	Day		
1/16/17	Monday	No Classes	
1/17/17	Tuesday	Syllabus	
		1.1	A Preview of Calculus
1/19/17	Thursday	1.2	Finding Limits Graphically and Numerically
1/24/17	Tuesday	1.3	Evaluating Limits Analytically
		1.4	Continuity and One-Sided Limits
1/26/17	Thursday	1.4	Continuity and One-Sided Limits
		1.5	Infinite Limits
1/31/17	Tuesday	2.1	The Derivative and the Tangent Line Problem
		2.2	Basic Differentiation Rules of Change
2/2/17	Thursday	2.2	Basic Differentiation Rules of Change
		2.3	Product and Quotient Rules and Higher-Order Derivatives
2/7/17	Tuesday	2.3	Product and Quotient Rules and Higher-Order Derivatives
2/9/17	Thursday	2.4	The Chain Rule

2/14/17	Tuesday	2.5	Implicit Differentiation
			Review
2/16/17	Thursday	Review/Exam 1	
24-Feb	Test Out Exam	Library 204A	Online Testing

Material for Exam 2: Section 2.6 and Chapter 3			
Date	Day		
2/21/17	Tuesday	2.6	Related Rates
2/23/17	Thursday	3.1	Extrema on an Interval
		3.2	Rolle's Theorem and the Mean Value Theorem
2/24/17	Friday	Exam 1 Retake	
2/28/17	Tuesday	3.2	Rolle's Theorem and the Mean Value Theorem
3/2/17	Thursday	3.3	Increasing and Decreasing Functions & First Derivative Test
		3.4	Concavity and the Second Derivative Test
3/7/17	Tuesday	3.5	Limits at Infinity
		3.6	A summary of Curve Sketching
3/9/17	Thursday	3.7	Optimization Problems
3/13/17	3/17/17	No Classes	Spring Break
3/21/17	Tuesday	3.8	Newton's Method
			Review
3/23/17	Thursday		Review
		4.1	Antiderivatives and Indefinite Integration
3/28/17	Tuesday	Exam 2	
		4.1	Antiderivatives and Indefinite Integration
3/30/17	Thursday	4.2	Area
		4.3 - Return Exam 2	Riemann Sums and Definite Integrals
3/30/17	Drop Date Deadline	Library	Drop Date

Material for Exam 3: Chapter 4 and 5			
Date	Day		
4/4/17	Tuesday	4.3	Riemann Sums and Definite Integrals
		4.4	The Fundamental Theorem of Calculus
4/6/17	Thursday	4.4	The Fundamental Theorem of Calculus
		4.5	Integration by Substitution
Mar. 7	Retake Exam 2	Library 204A	Online Testing
4/11/17	Tuesday	4.6	Numerical Integration
		5.1	The Natural Logarithmic Function: Differentiation
4/13/17	Thursday	5.1	The Natural Logarithmic Function: Differentiation
		5.2	The Natural Logarithmic Function: Integration
4/18/17	Tuesday	5.3	Inverse Functions
		5.4	Exponential Functions: Differentiation and Integration
4/20/17	Thursday	5.4	Exponential Functions: Differentiation and Integration
		5.5	Bases other than e and Applications

4/25/17	Tuesday	5.6	Inverse Trigonometric Functions: Differentiation
		5.7	Inverse Trigonometric Functions: Integration
4/27/17	Thursday	5.7	Inverse Trigonometric Functions: Integration
		5.8	Hyperbolic Functions
5/2/17	Tuesday	Review	
5/4/17	Thursday	Review/Exam 3	
5/5/17	Friday	Dead Day	
Final Exam Schedule			
Date of final exam	Time your class meets on TR	Final exam day and time:	
5/11/17	6:00 PM	<i>Thursday 7:00PM - 9:45PM in your regular classroom</i>	
Evening classes following the final Exam Schedule in the course catalog.			
11-May	Retake Exam 3	Library 204A	Online Testing