

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


Course #: M1508 (CRN: 11783)  
Course Title: Pre-Calculus  
Credit Hrs: 5  
Term: Fall 2015  
Course Meetings & Location: (*Lecture*) Mondays 1:30 – 2:20PM Liberal Arts 106,  
Tuesdays and Thursdays 1:30 – 2:50PM Liberal Arts 102  
(*Workshop*) Fridays 11:30AM – 1:20PM College of Business 323  
Prerequisite Courses: M0311 or TSI score between 350 – 390 or placement by previous  
Accuplacer scores  
  
Instructor: Jaime P. Lepe  
Office Location: Library Room 523  
Contact Info: TBA  
E-mail address: [jlepe@utep.edu](mailto:jlepe@utep.edu)  
Emergency Contact: [jlepe@utep.edu](mailto:jlepe@utep.edu)  
Office Hrs: Tuesdays and Thursdays 3:00 – 4:00 PM, Wednesdays 1:00 – 2:00 PM  
  
Textbook(s), Required: Pre-Calculus by Larson, 9th Edition  
Materials: (available as e-book and hardcover)

Suggested: Laptop and Graphing Calculator

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

The content of the entire course covers topics from basic mathematics and develop them using practical and theoretical tools, building applications and making a strong support for Calculus classes.

A student passing MATH1508 Precalculus course will be able to work with the concepts of functions (functions in general, exponential and logarithmic functions, polynomial and rational functions, trigonometric functions, etc), to solve a system of linear and non-linear equations and inequalities, to make basic operations with matrices, to apply mathematical induction method, to work with trigonometric functions and their properties, and to apply them in problems related to other branches of Science: Calculus, Algebra, Physics, Chemistry, Biology, Pharmacy, Engineering, Statistics, etc.

Course Activities/Assignments: You will find all assignments on <http://webassign.net/> . Please use Mozilla Firefox,  since WebAssign works best with this browser. Unannounced quizzes, may be administered in the classroom. Students may have 20 – 30 minute reading assignments due on WebAssign the day of each lecture.

Assessment of Course Objectives: There will be 3 exams. All exams, written by a committee, are administered in the classroom. A WebAssign Retake Exam is administered in the library after each exam. Failure to register online at <http://www.math.utep.edu/classes/testout.php>, for the retake means that you may not take this optional exam. If a student receives a grade of D or F, they may register for wintermester or take a comprehensive TestOut exam after wintermester. A grade of 70% or better on the comprehensive wintermester 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 Mr. Julian Viera.)

Grading Policy: Your grade will be calculated as follows:

WebAssign assignments	10%
In Class Quizzes	10%
Workshop grade	05%
Perfect attendance + completed worksheet = 100	
1 absence = 90	
2 absences = 80	
3 absences = 70	
4 absences = dropped from course	
Exam 1	25%
Exam 2	25%
Exam 3	25%

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 Friday October 30, 2015.

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 and attend all lectures and workshops. Attendance will be taken. A student will be dropped if he/she misses 3 lectures or 4 workshop sessions. Students are to arrive to class on time. It is the student's responsibility to make up missed assignments as determined by their instructor.

Civility Statement: Please turn off cell phones when you enter class and participate in class, active participation in this class is a vital part of your success.

Disability Statement: If you have 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](mailto:cass@utep.edu), or visit their office located in UTEP Union East, Room 106. For additional information, please visit the CASS website at [www.utep.edu/CASS](http://www.utep.edu/CASS). *CASS' Staff are the only individuals who can validate and if need be, authorize accommodations for students with disabilities.*

Academic Integrity Policy: 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.

Webpage's for Pre-Calculus: <http://www.math.utep.edu/classes/precalculus/>  
<https://www.facebook.com/utep.precal.cal?ref=hl>

## Course Schedule (Fall 2015)

### Material for Exam 1 : chapter 1 and chapter 2 up to 2.5

Date	Day	Sections	Description
8/24/2015	Monday	Syllabus	
8/25/2015	Tuesday	1.1 - 1.2	Rectangular Coordinates/Graphs of Equations
8/27/2015	Thursday	1.3 - 1.4	Linear Equations in Two Variables/Functions
8/31/2015	Monday	1.4 - 1.5	Functions/Analyzing Graphs of Functions
9/1/2015	Tuesday	1.6 - 1.7	Library of Parent Functions/Transformations of Functions
9/3/2015	Thursday	1.7	Transformations of Functions
<b>9/7/2015</b>	<b>Monday</b>	<b>No Classes</b>	<b>Labor Day</b>
9/8/2015	Tuesday	1.8	Combinations of Functions
9/10/2015	Thursday	1.9	Inverse Functions
9/14/2015	Monday	2.1	Quadratic functions and Models
9/15/2015	Tuesday	2.3 - 2.4	Polynomials and Synthetic Division/Complex Numbers
9/17/2015	Thursday	2.4	Complex Numbers
9/21/2015	Monday	2.5	Zeroes of Polynomial Functions
9/22/2015	Tuesday	Review (13 sections)	
9/24/2015	Thursday	<b>Exam 1</b>	<b>Chapter 1 and Chapter 2 up to 2.5</b>
<b>Oct. 2</b>	<b>Exam1 Retakes      Library 204A      Online Testing</b> <b>Students will not be allowed to begin the exam after 5:45PM.</b>		

### Material for Exam 2: Section 2.6; Chapter 3; 7.1 - 7.4 and 8.1 - 8.3

Date	Day	Sections	Description
9/28/2015	Monday	2.6	Rational Functions
9/29/2015	Tuesday	3.1 - 3.2	Exponential Functions&Their Graphs/Logarithmic Functions&their Graphs
10/1/2015	Thursday	3.3	Properties of Logarithms
10/2/2015	Friday	Retake exam 1	
10/5/2015	Monday	3.4	Exponential and Logarithmic Equations
10/6/2015	Tuesday	3.5	Exponential and Logarithmic Models
10/8/2015	Thursday	7.1	Linear and Nonlinear Systems of Equations
10/12/2015	Monday	7.2	Two-Variable Linear Systems
10/13/2015	Tuesday	7.3	Multivariable Linear Systems
10/15/2015	Thursday	7.4	Partial Fractions
10/19/2015	Monday	8.1	Matrices and Systems of Equations
10/20/2015	Tuesday	8.2	Operations with Matrices
10/22/2015	Thursday	8.3	The Inverse of a Square Matrix

10/26/2015	Monday	Review	
10/27/2015	Tuesday	<b>Exam 2</b>	<b>Section 2.6; Chapter 3; 7.1 - 7.4 and 8.1 - 8.3</b>
10/29/2015	Thursday	4.1 - 4.2	Radian and Degree Measure/Trig Functions: The unit Circle
10/30/2015	Friday	<b>Course Drop Deadline</b>	<b>Students must have grade from Exam 2 in order to drop on time</b>
<b>Nov. 6</b>	<b>Exam2 Retake</b>	<b>Library 204A</b>	<b>Online Testing</b>
	<b>Students will not be allowed to begin the exam after 5:45PM.</b>		

**Material for Exam 3: chapter 4 and chapter 5, with 6.1 and 6.2**

Date	Day	Sections	Description
11/2/2015	Monday	4.3	Right Triangle Trigonometry
11/3/2015	Tuesday	4.4	Trigonometric functions of any Angle
11/5/2015	Thursday	4.5	Graphs of Sine and Cosine
11/6/2015	Friday	Test Out Exams for Exam 2	
11/9/2015	Monday	4.6	Graphs of Other Trig functions
11/10/2015	Tuesday	4.7	Inverse Trigonometric functions
11/12/2015	Thursday	4.8	Applications and Models
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11/16/2015	Monday	5.1	Using fundamental Identities
11/17/2015	Tuesday	5.2 - 5.3	Verifying Trigonometric Identities/Solving Trigonometric Equations
11/19/2015	Thursday	5.3 - 5.4	Solving Trigonometric Equations/Sum and Difference Formulas
11/23/2015	Monday	5.5	Multiple Angle and Product-to-Sum Formulas
11/24/2015	Tuesday	5.5 - 6.1	Law of Sines
11/26/2015	Thursday	No classes	
11/30/2015	Monday	6.2	Law of Cosines
12/1/2015	Tuesday	Review (15 sections)	
12/3/2015	Thursday	<b>Exam 3</b>	
12/4/2015	Friday	No Lab - Dead Day	
Dec. 7 - Dec. 11	<b>Instructors will schedule a day during finals week to meet with students to return exam 3.</b>		
12/10/2014	<b>Exam 3 Retake</b>	<b>Library 204A</b>	<b>Online Testing</b>