

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

Course #: M1508
Course Title: Pre-Calculus

Term: Fall 2019
Course Meetings & Location: _____
Prerequisite Courses: M0311 or TSI score between 350 – 390 or placement by previous Accuplacer scores

Instructor: Dr. Maria Pia Beccar Varela
Office Location: Bell Hall 216
Contact Info: 747-8038
E-mail address: mpvarela@utep.edu
Emergency Contact: 915-747-5761 (Math Department)

Office Hrs: Monday 3:30-5:00pm - Thursday 4:35-5:55pm., but stop by anytime you need.

Textbook(s), Materials: Required: Pre-Calculus by Larson, 10th edition
(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 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. All exams, written by a committee, are administered in the classroom. A WebAssign Retake Exam will be administered in the library after each exam.

To register for a retake exam go to <http://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 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 Dr. Julian Viera.)

Grading Policy: Your grade will be calculated as follows:

WebAssign assignments	10%
In Class Quizzes	10%
Workshop Attendance- grade	05%
13 = 100	
12 = 90	
11 = 80	
10 = 70	
9 or less = 0	
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 November 1, 2019. 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 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 do not use smart phones, smart watches, iPads, blue tooth or any smart device during quizzes and exams. Cell phones and tablets 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. Calculators may not be shared during quizzes and exams. Active participation in class is expected, teamwork in class will be implemented. Video or pictures of lectures must have written consent from the instructor and student(s).

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, or visit their office located in UTEP Union East, Room 106. 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.*

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:

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

Wk	Date	Day	Sections	Description
1	8/26/2019	Monday	Syllabus	
	8/27/2019	Tuesday	1.1 - 1.2	Rectangular Coordinates/Graphs of Equations
	8/29/2019	Thursday	1.3 - 1.4	Linear Equations in Two Variables/Functions
2	9/2/2019	Monday	No Classes	Labor Day
	9/3/2019	Tuesday	1.4 - 1.5	Functions/Analyzing Graphs of Functions
	9/5/2019	Thursday	1.6 - 1.7	Library of Parent Functions/Transformations of Functions
3	9/9/2019	Monday	1.7	Transformations of Functions
	9/10/2019	Tuesday	1.8	Combinations of Functions
	9/12/2019	Thursday	1.9	Inverse Functions
4	9/16/2019	Monday	2.1	Quadratic functions and Models
	9/17/2019	Tuesday	2.3 - 2.4	Polynomials and Synthetic Division/Complex Numbers
	9/19/2019	Thursday	2.4	Complex Numbers
5	9/23/2019	Monday	2.5	Zeroes of Polynomial Functions
	9/24/2019	Tuesday	Review (13 sections)	
	9/26/2019	Thursday	Exam 1	Chapter 1 and Chapter 2 up to 2.5
	Oct. 4	Exam1 Retakes Library 204A Online Testing Students will not be allowed to begin the exam after 5:45PM.		

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

	Date	Day	Sections	Description
6	9/30/2019	Monday	2.6	Rational Functions
	10/1/2019	Tuesday	3.1 - 3.2	Exponential Functions&Their Graphs/Logarithmic Functions&their Graphs
	10/3/2019	Thursday	3.3	Properties of Logarithms
	10/4/2019	Friday	Retake exam 1	
7	10/7/2019	Monday	3.4	Exponential and Logarithmic Equations
	10/8/2019	Tuesday	3.5	Exponential and Logarithmic Models
	10/10/2019	Thursday	7.1	Linear and Nonlinear Systems of Equations
8	10/14/2019	Monday	7.2	Two-Variable Linear Systems
	10/15/2019	Tuesday	7.3	Multivariable Linear Systems
	10/17/2019	Thursday	7.4	Partial Fractions
9	10/21/2019	Monday	8.1	Matrices and Systems of Equations
	10/22/2019	Tuesday	8.2	Operations with Matrices
	10/24/2019	Thursday	8.3	The Inverse of a Square Matrix
10	10/28/2019	Monday	Review	
	10/29/2019	Tuesday	Exam 2	Section 2.6; Chapter 3; 7.1 - 7.4 and 8.1 - 8.3
	10/31/2019	Thursday	4.1 - 4.2	Radian and Degree Measure/Trig Functions: The unit Circle
	11/1/2019	Friday	Course Drop Deadline	Students must have grade from Exam 2 in order to drop on time
	Nov. 8	Exam2 Retake Library 204A Online Testing Students will not be allowed to begin the exam after 5:45PM.		

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Material for Exam 3: chapter 4 and chapter 5, with 6.1 and 6.2				
	Date	Day	Sections	Description
11	11/4/2019	Monday	4.3	Right Triangle Trigonometry
	11/5/2019	Tuesday	4.4	Trigonometric functions of any Angle
	11/7/2019	Thursday	4.5	Graphs of Sine and Cosine
	11/8/2019	Friday	Test Out Exams for Exam 2	
12	11/11/2019	Monday	4.6	Graphs of Other Trig functions
	11/12/2019	Tuesday	4.7	Inverse Trigonometric functions
	11/14/2019	Thursday	4.8	Applications and Models
13	11/18/2019	Monday	5.1	Using fundamental Identities
	11/19/2019	Tuesday	5.2 - 5.3	Verifying Trigonometric Identities/Solving Trigonometric Equations
	11/21/2019	Thursday	6.1	Law of sines
14	11/25/2019	Monday	5.3 - 5.4	Solving Trigonometric Equations/Sum and Difference Formulas
	11/26/2019	Tuesday	5.5	Multiple-angle and Product-to-Sum Formulas
	11/28/2019	Thursday	No classes	Thanksgiving
15	12/2/2019	Monday	6.2	Law of Cosines
	12/3/2019	Tuesday	Review (15 sections)	
	12/5/2019	Thursday	Exam 3	
	12/6/2019	Friday	No Lab - Dead Day	
16	Instructors will schedule a day during finals week to meet with students to return exam 3.			
	Dec. 12	Exam 3 Retake	Library 204A	Online Testing