

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

Course #: M1508
Course Title: Pre-Calculus
Credit Hrs: 5
Term: Spring 2018
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 and - Thursday 4:20-5:50pm but stop by anytime you need.

Textbook(s), Materials: Required: Pre-Calculus by Larson, 10th Edition (available as e-book and hardcover)
Suggested: Laptop computer
Graphical 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. 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. These are departmental exams and are to be taken in the classroom on the assigned dates found in the calendar. A WebAssign Retake Exam is administered in the library after each exam.

To register for a retake exam go to <http://www.math.utep.edu/classes/testout.php>. 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 assignments	10%
Quizzes	10%
Workshop attendance grade	05%

13	100
12	90
11	80
10	70
< 10	0 - drop

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 Thursday March 29, 2018. 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:** 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. **Video or pictures of lectures must have written consent from the instructor and student(s).**
- 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
Pre-Calculus:

Visit our website and read the course information thoroughly at <http://www.math.utep.edu/classes/precalculus/> . All workshop materials will be posted on the website.

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 up to 2.5				
Wk	Date	Day	Sections	Description
1	1/15/2018	Monday	No Classes	
	1/16/2018	Tuesday	Syllabus/1.1	Rectangular Coordinates
	1/18/2018	Thursday	1.1 - 1.2	Rectangular Coordinates/Graphs of Equations
2	1/22/2018	Monday	1.3 - 1.4	Linear Equations in Two Variables/Functions
	1/23/2018	Tuesday	1.4 - 1.5	Functions/Analyzing Graphs of Functions
	1/25/2018	Thursday	1.6 - 1.7	Library of Parent Functions/Transformations of Functions
3	1/29/2018	Monday	1.7	Transformations of Functions
	1/30/2018	Tuesday	1.8	Combinations of Functions
	2/1/2018	Thursday	1.9	Inverse Functions
4	2/5/2018	Monday	2.1	Quadratic functions and Models
	2/6/2018	Tuesday	2.3 - 2.4	Polynomials and Synthetic Division/Complex Numbers
	2/8/2018	Thursday	2.4	Complex Numbers
5	2/12/2018	Monday	2.5	Zeros of Polynomial Functions
	2/13/2018	Tuesday	Review (13 sections)	
	2/15/2018	Thursday	Exam 1	
Feb. 23	Exam1 Retakes	Library 204A or B	Online Testing	
Material for Exam 2: Section 2.6; Chapter 3; 7.1 - 7.4 and 8.1 - 8.3				
Date	Day	Sections	Description	
6	2/19/2018	Monday	2.6	Rational Functions/Exponential Functions and Their Graphs

	2/20/2018	Tuesday	3.1	Exponential Functions and Their Graphs
	2/22/2018	Thursday	3.2 - 3.3	Properties of Logarithms/Logarithmic Functions and their Graphs
	2/23/2018	Friday	Exam 1 Retake	
7	2/26/2018	Monday	3.4	Exponential and Logarithmic Equations
	2/27/2018	Tuesday	3.5	Exponential and Logarithmic Models
	3/1/2018	Thursday	7.1	Linear and Nonlinear Systems of Equations
8	3/5/2018	Monday	7.2	Two-Var Linear Systems
	3/6/2018	Tuesday	7.3	Multivariable Linear Systems
	3/8/2018	Thursday	7.4	Partial Fractions
	3/12/2018	3/16/2018	No Classes	Spring Break
9	3/19/2018	Monday	8.1	Matrices and Systems of Equations
	3/20/2018	Tuesday	8.2	Operations with Matrices
	3/22/2018	Thursday	8.3	The Inverse of a Square Matrix
10	3/26/2018	Monday	Review	
	3/27/2018	Tuesday	Exam 2	
	3/29/2018	Thursday	4.1	Radian and Degree Measure/ DROP DATE DEADLINE
	3/30/2018	Friday	No classes	Cesar Chavez Day - No classes
	Apr. 6	Exam2 Retake	Library 204A or B	Online Testing
	Material for Exam 3: chapter 4 and chapter 5, with 6.1 and 6.2			
	Date	Day	Sections	Description
11	4/2/2018	Monday	4.2	Trig Functions: The unit Circle
	4/3/2018	Tuesday	4.3	Right Triangle Trigonometry
	4/5/2018	Thursday	4.4	Trigonometric functions of any Angle
	4/6/2018	Friday	Exam 2 Retake	
12	4/9/2018	Monday	4.5	Graphs of Sine and Cosine
	4/10/2018	Tuesday	4.6	Graphs of Other Trig functions

	4/12/20 18	Thursday	4.7 - 4.8	Inverse Trigonometric functions/Applications and Models
1 3	4/16/20 18	Monday	5.1	Using fundamental Identities
	4/17/20 18	Tuesday	5.2	Verifying Trigonometric Identities
	4/19/20 18	Thursday	5.3	Solving Trigonometric Equations
1 4	4/23/20 18	Monday	5.3	Solving Trigonometric Equations
	4/24/20 18	Tuesday	5.4 - 5.5	Sum and Difference Formulas
	4/26/20 18	Thursday	6.1	Law of sines
1 5	4/30/20 18	Monday	6.1 - 6.2	Law of Sines/Law of Cosines
	5/1/201 8	Tuesday	Review (15 sections)	
	5/3/201 8	Thursday	Exam 3	
	5/4/201 8	Friday	NO CLASSES	Dead day
1 6	5/7 - 5/11	Instructors will schedule a day during finals week to meet with students to return exam 3		
	5/10/20 18	Exam 3 Retake	Library 204A or B	Online Testing