

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

Course #: M1508
Course Title: Pre-Calculus
Credit Hrs: 5
Term: Fall 2016
Course Meetings & Location: Monday: 10:30-11:20am, Tuesday and Thursday: 10:30-11:50am,
Friday: 9:30-11:20am
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 4:00-5:30pm., but stop
by anytime you need.

Textbook(s), Materials: Required: Pre-Calculus by Larson, 9th 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. 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 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 Mr. Julian Viera.)

Grading Policy: Your grade will be calculated as follows:

WebAssign assignments	10%
In Class Quizzes	10%
Workshop Attendance grade	05%
13 = 100	
11-12 = 90	
9 - 10 = 80	
8 = 70	
7 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 October 28, 2016. **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 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, 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:

Material for Exam 1 : chapter 1 and chapter 2 up to 2.5			
Date	Day	Sections	Description
8/22/2016	Monday	Syllabus	
8/23/2016	Tuesday	1.1 - 1.2	Rectangular Coordinates/Graphs of Equations
2/25/2016	Thursday	1.3 - 1.4	Linear Equations in Two Variables/Functions
8/29/2016	Monday	1.4 - 1.5	Functions/Analyzing Graphs of Functions
8/30/2016	Tuesday	1.6 - 1.7	Library of Parent Functions/Transformations of Functions
9/1/2016	Thursday	1.7	Transformations of Functions
9/5/2016	Monday	No Classes	Labor Day
9/6/2016	Tuesday	1.8	Combinations of Functions
9/8/2016	Thursday	1.9	Inverse Functions
9/12/2016	Monday	2.1	Quadratic functions and Models
9/13/2016	Tuesday	2.3 - 2.4	Polynomials and Synthetic Division/Complex Numbers
9/15/2016	Thursday	2.4	Complex Numbers
9/19/2016	Monday	2.5	Zeroes of Polynomial Functions
9/20/2016	Tuesday	Review (13 sections)	
9/22/2016	Thursday	Exam 1	Chapter 1 and Chapter 2 up to 2.5
Sept. 30	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
9/26/2016	Monday	2.6	Rational Functions
9/27/2016	Tuesday	3.1 - 3.2	Exponential Functions&Their Graphs/Logarithmic Functions&their Graphs
9/29/2016	Thursday	3.3	Properties of Logarithms
9/30/2016	Friday	Retake exam 1	
10/3/2016	Monday	3.4	Exponential and Logarithmic Equations
10/4/2016	Tuesday	3.5	Exponential and Logarithmic Models

10/6/2016	Thursday	7.1	Linear and Nonlinear Systems of Equations
10/10/2016	Monday	7.2	Two-Variable Linear Systems
10/11/2016	Tuesday	7.3	Multivariable Linear Systems
10/13/2016	Thursday	7.4	Partial Fractions
10/17/2016	Monday	8.1	Matrices and Systems of Equations
10/18/2016	Tuesday	8.2	Operations with Matrices
10/20/2016	Thursday	8.3	The Inverse of a Square Matrix
10/24/2016	Monday	Review	
10/25/2016	Tuesday	Exam 2	Section 2.6; Chapter 3; 7.1 - 7.4 and 8.1 - 8.3
20/27/2016	Thursday	4.1 - 4.2	Radian and Degree Measure/Trig Functions: The unit Circle
10/28/2016	Friday	Course Drop Deadline	Students must have grade from Exam 2 in order to drop on time
Nov. 4	Exam2 Retake Library 204A Online Testing Students will not be allowed to begin the exam after 5:45PM.		

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

Date	Day	Sections	Description
10/31/2016	Monday	4.3	Right Triangle Trigonometry
11/1/2016	Tuesday	4.4	Trigonometric functions of any Angle
11/3/2016	Thursday	4.5	Graphs of Sine and Cosine
11/4/2016	Friday	Test Out Exams for Exam 2	
11/7/2016	Monday	4.6	Graphs of Other Trig functions
11/8/2016	Tuesday	4.7	Inverse Trigonometric functions
11/10/2016	Thursday	4.8	Applications and Models
11/14/2016	Monday	5.1	Using fundamental Identities
11/15/2016	Tuesday	5.2 - 5.3	Verifying Trigonometric Identities/Solving Trigonometric Equations
11/17/2016	Thursday	5.3 - 5.4	Solving Trigonometric Equations/Sum and Difference Formulas
11/21/2016	Monday	5.5	Multiple Angle and Product-to-Sum Formulas
11/22/2016	Tuesday	5.5 - 6.1	Law of Sines
11/24/2016	Thursday	No classes	
11/28/2016	Monday	6.2	Law of Cosines
11/29/2016	Tuesday	Review (15 sections)	
12/1/2016	Thursday	Exam 3	
12/2/2016	Friday	No Lab - Dead Day	
Dec. 7 - Dec. 11	Instructors will schedule a day during finals week to meet with students to return exam 3.		
De. 8	Exam 3 Retake Library 204A Online Testing		