

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

Course #: M1508, CRN \_\_\_\_\_  
Course Title: Pre-Calculus  
Credit Hrs: 5  
Term: Spring 2020  
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 4:30-5:50pm, or by appointment.

Textbook(s), Materials: Required: Pre-Calculus by Larson, 10th  
edition (available as e-book and hardcover)

WebAssign Class Key: Will be distributed.

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. These are departmental exams and must be taken in class during the assigned date (found on the calendar). NO EXTRA CREDIT OR CURVES ON EXAMS. A Retake Exam, for improvement, will be administered in the library after each exam. The best grade will be recorded for student grade.

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, then 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 PreCalculus, Mrs. Nada Al-Hanna).

Grading Policy: Your grade will be calculated as follows:

WebAssign assignments	10%
Quizzes	10%
Workshop Attendance- grade	05%
12 = 100	
11 = 90	
10 = 80	
9 = 70	
8 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 April 3, 2020. 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](mailto:cass@utep.edu), or visit their office located in UTEP Union East, Room 106. For additional information, then 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, then 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:** See separate calendar.

<b>Material for Exam 1 : chapter 1 and chapter 2 up to 2.5</b>			
<b>Date</b>	<b>Day</b>	<b>Sections</b>	<b>Description</b>
1/20/2019	Monday	No Classes	
1/21/2019	Tuesday	Syllabus/1.1	Rectangular Coordinates
1/23/2019	Thursday	1.1 - 1.2	Rectangular Coordinates/Graphs of Equations
1/27/2019	Monday	1.3 - 1.4	Linear Equations in Two Variables/Functions
1/28/2019	Tuesday	1.4 - 1.5	Functions/Analyzing Graphs of Functions
1/30/2019	Thursday	1.6 - 1.7	Library of Parent Functions/Transformations of Functions
2/3/2019	Monday	1.7	Transformations of Functions
2/4/2019	Tuesday	1.8	Combinations of Functions
2/6/2019	Thursday	1.9	Inverse Functions
2/10/2019	Monday	2.1	Quadratic functions and Models
2/11/2019	Tuesday	2.3 - 2.4	Polynomials and Synthetic Division/Complex Numbers
2/13/2019	Thursday	2.4	Complex Numbers
2/17/2019	Monday	2.5	Zeros of Polynomial Functions
2/18/2019	Tuesday	Review (13 sections)	
2/20/2019	Thursday	<b>Exam 1</b>	
<b>Feb. 28</b>	<b>Exam1 Retakes</b>	<b>Library 204A or B</b>	<b>Online Testing</b>

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

<b>Date</b>	<b>Day</b>	<b>Sections</b>	<b>Description</b>
2/24/2019	Monday	2.6	Rational Functions/Exponential Functions and Their Graphs
2/25/2019	Tuesday	3.1	Exponential Functions and Their Graphs
2/27/2019	Thursday	3.2 - 3.3	Properties of Logarithms/Logarithmic Functions and their Graphs
2/28/2019	Friday	Exam 1 Retake	
3/2/2019	Monday	3.4	Exponential and Logarithmic Equations
3/3/2019	Tuesday	3.5	Exponential and Logarithmic Models
3/5/2019	Thursday	7.1	Linear and Nonlinear Systems of Equations
3/9/2019	Monday	7.2	Two-Var Linear Systems
3/10/2019	Tuesday	7.3	Multivariable Linear Systems
3/12/2019	Thursday	7.4	Partial Fractions
3/16/2019 thru 3/20/2019		No Classes	Spring Break
3/23/2019	Monday	8.1	Matrices and Systems of Equations
3/24/2019	Tuesday	8.2	Operations with Matrices
3/26/2019	Thursday	8.3	The Inverse of a Square Matrix
<b>3/27/2019</b>	<b>Friday</b>	<b>No Classes</b>	<b>Cesar Chavez Day - No classes</b>
3/30/2019	Monday	Review	
3/31/2019	Tuesday	<b>Exam 2</b>	
4/2/2019	Thursday	4.1	Radian and Degree Measure
4/3/2019	Friday		<b>DROP DATE DEADLINE</b>
<b>Apr. 17</b>	<b>Exam2 Retake</b>	<b>Library 204A or B</b>	<b>Online Testing</b>

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

<b>Date</b>	<b>Day</b>	<b>Sections</b>	<b>Description</b>
4/6/2019	Monday	4.2	Trig Functions: The unit Circle
4/7/2019	Tuesday	4.3	Right Triangle Trigonometry
4/9/2019	Thursday	4.4	Trigonometric functions of any Angle
<b>4/10/2019</b>	<b>Friday</b>	<b>No classes</b>	<b>Spring study day</b>
4/13/2019	Monday	4.5	Graphs of Sine and Cosine
4/14/2019	Tuesday	4.6	Graphs of Other Trig functions
4/16/2019	Thursday	4.7 - 4.8	Inverse Trigonometric functions/Applications and Models
4/17/2019	Friday	<b>Exam 2 Retake</b>	
4/20/2019	Monday	5.1	Using fundamental Identities
4/21/2019	Tuesday	5.2	Verifying Trigonometric Identities
4/23/2019	Thursday	5.3	Solving Trigonometric Equations
4/27/2019	Monday	5.3	Solving Trigonometric Equations
4/28/2019	Tuesday	5.4 - 5.5	Sum and Difference Formulas
4/30/2019	Thursday	6.1	Law of sines
5/4/2019	Monday	6.1 - 6.2	Law of Sines/Law of Cosines
5/5/2019	Tuesday	Review (15 sections)	
5/7/2019	Thursday	<b>Exam 3</b>	
5/8/2019	Friday	<b>NO CLASSES</b>	<b>Dead day</b>
<b>5/14/2019</b>		<b>Exam 3 Retake</b>	<b>Library 204A or B</b>
			<b>Online Testing</b>