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

Course #:	M1508 CRN 13922
Course Title:	Pre-Calculus
Credit Hrs:	5
Term:	Fall 2017
Course Meetings & Location:	M (1:30 pm-2:20 pm) &TR (1:30 pm-2:50 pm) Cotton Memorial 201. F (1:30pm-3:20pm) Psychology 115.
Prerequisite Courses:	M0311 or TSI score between 350 – 390 or placement by previous Accuplacer scores
Instructor:	Nada Al-Hanna
Office Location:	Bell Hall 325
Contact Info:	747-8898 E-mail address: nfalhanna@utep.edu Emergency Contact: 747-5761
Office Hrs:	MTR (3:00PM-4:00PM) or appointment.
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 <u>course</u> 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
    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 3, 2017. 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

Instructor's webpage: http://www.math.utep.edu/Faculty/nfalhanna/

Course Schedule:
(Subject to change)

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

Wk	Date	Day	Sections	Description
1	8/28/2017	Monday	Syllabus	
	8/29/2017	Tuesday	1.1 - 1.2	Rectangular Coordinates/Graphs of Equations
	8/31/2017	Thursday	1.3 - 1.4	Linear Equations in Two Variables/Functions
2	**9/4/2017**	**Monday**	**No Classes**	**Labor Day**
	9/5/2017	Tuesday	1.4 - 1.5	Functions/Analyzing Graphs of Functions
	9/7/2017	Thursday	1.6 - 1.7	Library of Parent Functions/Transformations of Functions
3	9/11/2017	Monday	1.7	Transformations of Functions
	9/12/2017	Tuesday	1.8	Combinations of Functions
	9/14/2017	Thursday	1.9	Inverse Functions
4	9/18/2017	Monday	2.1	Quadratic functions and Models
	9/19/2017	Tuesday	2.3 - 2.4	Polynomials and Synthetic Division/Complex Numbers
	9/21/2017	Thursday	2.4	Complex Numbers
5	9/25/2017	Monday	2.5	Zeroes of Polynomial Functions
	9/26/2017	Tuesday	Review (13 sections)	
	9/28/2017	Thursday	**Exam 1**	**Chapter 1 and Chapter 2 up to 2.5**
	Oct. 6	**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	10/2/2017	Monday	2.6	Rational Functions
	10/3/2017	Tuesday	3.1 - 3.2	Exponential Functions&Their Graphs/Logarithmic Functions&their Graphs
	10/5/2017	Thursday	3.3	Properties of Logarithms
	10/6/2017	Friday	Retake exam 1	

7	10/9/2017	Monday	3.4	Exponential and Logarithmic Equations
	10/10/2017	Tuesday	3.5	Exponential and Logarithmic Models
	10/12/2017	Thursday	7.1	Linear and Nonlinear Systems of Equations
8	10/16/2017	Monday	7.2	Two-Variable Linear Systems
	10/17/2017	Tuesday	7.3	Multivariable Linear Systems
	10/19/2-017	Thursday	7.4	Partial Fractions
9	10/23/2017	Monday	8.1	Matrices and Systems of Equations
	10/24/2017	Tuesday	8.2	Operations with Matrices
	10/26/2017	Thursday	8.3	The Inverse of a Square Matrix
10	10/30/2017	Monday	Review	
	10/31/2017	Tuesday	**Exam 2**	**Section 2.6; Chapter 3; 7.1 - 7.4 and 8.1 - 8.3**
	11/2/2017	Thursday	4.1 - 4.2	Radian and Degree Measure/Trig Functions: The unit Circle
	11/3/2017	Friday	**Course Drop Deadline**	**Students must have grade from Exam 2 in order to drop on time**

Nov. 10	**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**
11	11/6/2017	Monday	4.3	Right Triangle Trigonometry
	11/7/2017	Tuesday	4.4	Trigonometric functions of any Angle
	11/9/2017	Thursday	4.5	Graphs of Sine and Cosine
	11/10/2017	Friday	Test Out Exams for Exam 2	
12	11/13/2017	Monday	4.6	Graphs of Other Trig functions
	11/14/2017	Tuesday	4.7	Inverse Trigonometric functions
	11/16/2017	Thursday	4.8	Applications and Models
13	11/20/2017	Monday	5.1	Using fundamental Identities
	11/21/2017	Tuesday	5.2 - 5.3	Verifying Trigonometric Identities/Solving Trigonometric Equations
	11/23/2017	Thursday	No classes	
14	11/27/2017	Monday	5.3 - 5.4	Solving Trigonometric Equations/Sum and Difference Formulas
	11/28/2017	Tuesday	5.5	Mulitple-angle and Product-to-Sum Formulas
	11/30/2017	Thursday	6.1	Law of sines
15	12/4/2017	Monday	6.2	Law of Cosines
	12/5/2017	Tuesday	Review (15 sections)	
	12/7/2017	Thursday	**Exam 3**	
	12/8/2017	Friday	No Lab - Dead Day	
16			**Instructors will schedule a day during finals week to meet with students to return exam 3.**	
	Dec. 14	**Exam 3 Retake Library 204A Online Testing**		