THE UNIVERSITY OF TEXAS AT EL PASO
COLLEGE OF SCIENCE
DEPARTMENT OF MATHEMATICAL SCIENCES

Math 1508 Pre-Calculus (CRN#17557)

Course Information: 5 credit hours, Fall 2016.
Prerequisite: M0311 or TSI score between 350 – 390 or placement by previous Accuplacer scores.
Meetings & Hours: M 1:30 pm – 2:20 pm Liberal Arts Building 205
              Tue & Thurs. 1:30 pm – 2:50 pm Liberal Arts Building 103
              F (Lab) 1:30 pm – 3:20 pm College of Business Admin 313

Instructor Contact Information: Yiyu A. Liao (O) 915-747-5452 (E) ylia2@utep.edu
Office Hours & Location: W 3-4 pm or by appointment at Bell Hall 130 F. The best way to contact me is by WebAssign e-mail. I am available from Mon. through Thurs. during the day (10 am-4 pm), and I will reply within 48 hours. For urgent matters, please contact Math Dept. at 915-747-5761.


Learning Objectives: The central objectives of critical thinking (CT), communication skills (CM), teamwork (TW), and social responsibility (SR) are addressed in each class meeting. 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: There will be online and in-class homework, quizzes, and additional reflection/reading assignments (as take home quiz) before or after each class meeting.

- Online assignments: There will be no additional announcements about the deadlines, so make sure that the email address in WebAssign is your preferred email address that you check daily. After the deadline, you can request one automatic extension per assignment within 24 hours after deadline with 10% penalty for unearned credits. Extension link will not shown before deadline. Since all assignments will be available at least a week before due date, any technical issues, like no Internet connection or laptop/computer broke, can’t not be excused for assignments. If you have trouble with WA, please contact Student Support via https://webassign.com/support/student-support/ 24 hours before the due date.

- In-class assignments: They will be given during the course without specific time. There will be no makeup if you miss it because of arriving late or leaving early.
Assessments: Besides homework and quizzes, there will be 3 departmental exams. They are written exams and to be taken in class. After taking each departmental exam, there will be an optional online retake exam as a replacement for improvement. You will need to register in advance at [http://www.math.utep.edu/classes/retake/](http://www.math.utep.edu/classes/retake/). Failure to register means that you may not take this optional exam. However, if you can’t take a retake exam without taking the written one. Fail to take exam 1 and 2 will result in the student to be dropped from this class.

Grading Policy: Homework and quizzes are weighted by their points. At the end of semester, 3 lowest homework and 3 lowest quiz scores will be dropped. You can review your overall grade on WebAssign, and semester overall grade will be calculated as follows:

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<tr>
<th></th>
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<th>25%</th>
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<tbody>
<tr>
<td>Homework</td>
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<tr>
<td>Quiz</td>
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<tr>
<td>Workshop</td>
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<td>Exam 1</td>
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<tr>
<td>Exam 2</td>
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<td>10%</td>
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<tr>
<td>Exam 3</td>
<td></td>
<td>25%</td>
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(Workshop attendance: More than $13 = 100$, $11-12 = 90$, $9-10 = 80$, $8 = 70$, $7$ or less $= 0$)

The overall (%) grading scale is: $90 - 100 = A$, $80 - 89 = B$, $70 - 79 = C$, $60 - 69 = D$, $0 - 59 = F$. If a student receives a grade of D or F, they may register for Winter-mester or take a comprehensive TestOut exam after Winter-mester. A grade of 70% or better on the comprehensive Winter-mester exam or a 70% or better on the TestOut exam will replace original failing semester grade with a C. A grade change form will be signed and submitted by the coordinator for Pre-Calculus, Mr. Julian Viera, [jviera1@utep.edu](mailto:jviera1@utep.edu).

Drop Date and Policy: The Drop Date for this semester is Friday, Oct 28th, 2016. If you feel you are failing, please set up an appointment for advice before Thursday, Oct 27th, 2016. There will be mainly Student-initiated Drops. The Administrative Drops will be given only if a student has excessive absences (6 unexcused absences). Remember that it is your responsibility to drop from this course. No Administrative Drops will be given after the deadline, so please do not put your GPA at risk because of Financial Aid or academic probation. Read here: [http://academics.utep.edu/Default.aspx?tabid=56696](http://academics.utep.edu/Default.aspx?tabid=56696) for more information about “How to Drop a Course”.

Attendance Policy: Attendance will be taken at each class session. If a student receives more than 3 unexcused absences, his/her final grade will be reduced by 1 letter grade. Six unexcused absences will result an automatic “F”. It is also your responsibility to find out the work they miss while being absent. You can ask your classmates for help with class note, download handouts from WebAssign (if any), and go to MaRCS tutoring center to make up the missing lessons. If you have a legitimate reason to be late (15 minutes after class stats) or leave early (15 minutes before class ends), inform me ahead of time. If you fail to do so, 10% of any in-class assignment scores will be deducted.

Civility Statement: Be punctual and respectful. No food or snack during the class. Lateness disrupts the flow of class, so please arrive on time; consistent tardiness will affect your grade. You may use your laptop computer or tablet to take notes with the instructor's permission. Photos or videos may not be taken in class without prior permission.
Make-up Policy: No makeup will be allowed except with the copy of a proper official documentation, i.e. doctor’s note, hospital’s note, or UTEP excused absence document. Any documentation for makeup or excused assignments should be submitted in person within 48 hours after the deadline. Late work or submitted assignments via e-mail are not accepted.

Academic Integrity Policy: Any student who commits an act of scholastic dishonesty is subject to discipline. Scholastic dishonesty includes, but is not limited to cheating, plagiarism, collusion, and 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. Refer to the UTEP’s Policy at http://sa.utep.edu/osccr/academic-integrity/.

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, please inform me before Friday, August 26th, 2016 and contact me as soon as possible before you leave due to your service or training.

Disability Statement: If you have a disability and need classroom accommodations, please inform me before Friday, August 26th, 2016 and contact the Center for Accommodations and Support Services (CASS) at 915-747-5148, 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.

Math 1508 Course Websites: Visit our website and read the course information thoroughly at http://www.math.utep.edu/classes/precalculus/ or find us at http://www.facebook.com/pages/UTEP-PreCalculusCalculus/180583381999326 for more information and news.

Evaluation and Rubric:
Even though online assignments only require the final answers, you will need to show all relevant work to earn full credits in your in-class assignments and exams.

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<tr>
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<th>Points</th>
<th>Description</th>
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<tbody>
<tr>
<td>L3</td>
<td>7-10</td>
<td>The student correctly and accurately employs most the appropriate and required aspects of the representation to display the information. The representation of the given information is correct and accurate. The student uses the correct format, mathematical terminology and language.</td>
</tr>
<tr>
<td>L2</td>
<td>4-6</td>
<td>The student shows some knowledge of how to employ most of the appropriate and required aspects of the representation to display the information. The representation is lacking in a major way.</td>
</tr>
<tr>
<td>L1</td>
<td>1-3</td>
<td>The student cannot represent the mathematical information in the representation(s) required. The representation(s) is incomprehensible or unrelated to the given information. The process of developing the representation is incorrect.</td>
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Free Tutoring and Online Resources:

Free tutoring at UTEP: MaRCS center @ Library Rm218  http://math.utep.edu/marcs/

Free online resource:

Khan Academy  https://www.khanacademy.org/
Cool Math  http://www.coolmath.com/precalculus

Examination Rules: Students are expected to be familiar with the exam rules. A breach of any of the examination rules may result in a student's expulsion from the exam or penalties.

- Students should attend for each examination at least 10 minutes before the designated starting time. Any latecomers (15 minutes after the exam starts) may not be permitted to enter the classroom.

- Any behavior or activity (including leaving the classroom during the exam), which causes inconvenience or disruption to other students, is not permitted. Please avail of the toilets before entering the classroom.

- Bags/backpacks and personal belongings should be placed at front/back side of the classroom. A student is not permitted to look for any item once the exam starts.

- Students are prohibited from using electronic devices or any communication tool that has not been approved beforehand. Any such device or tool must be shut off.

- If a student requires assistance, he/she should attract the attention of instructor by raising his/her hand. You may not leave your assigned seat without the permission of your instructor.

- You are not permitted to turn in your exam early and leave the classroom until the end of the exam. At the conclusion of the examination, you are to remain seated until your instructor gives further instruction.

- If, for any reason, you are allowed to leave the classroom and return, you must account for this brief absence from the examination hall by indicating and initialing the time of your exit and re-entry to the classroom. Please note that it is mandatory to leave your cellphone and other electronic devices on your table during the brief absence from the classroom.

Last updated date is 8/17/16
WEEKLY ASSIGNMENTS (UNIT 1)

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**NOTE**

9/30/2016  Friday  Retake EXAM 1  Register Online here: http://math.utep.edu/classes/retake
**WEEKLY ASSIGNMENTS (UNIT 2)**

### WEEK 6

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<tr>
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<td>Exponential and Logarithmic Models</td>
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<td>Linear and Nonlinear Systems of Equations</td>
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<td>10/17/2016</td>
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<td>Matrices and Systems of Equations</td>
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<td>Tuesday</td>
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<td>Operations with Matrices</td>
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<td>4.1 – 4.2</td>
<td>Radian &amp; Degree Measure/ Trig: Unit Circle</td>
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### NOTE

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### WEEKLY ASSIGNMENTS (UNIT 3)

#### WEEK 11
- **10/31/2016**
  - **Monday**
    - 4.3 Right Triangle Trigonometry
- **11/1/2016**
  - **Tuesday**
    - 4.4 Trigonometric functions of any Angle
- **11/2/2016**
  - **Wednesday**
- **11/3/2016**
  - **Thursday**
    - 4.5 Graphs of Sine and Cosine
- **11/4/2016**
  - **Friday**
    - Lab Section 001 (CRN17557)
    - Retake EXAM 2
- **11/6/2016**
  - **Sunday**
    - HW due date
    - 4.3 & 4.4

#### WEEK 12
- **11/7/2016**
  - **Monday**
    - 4.6 Graphs of Other Trig functions
- **11/8/2016**
  - **Tuesday**
    - 4.7 Inverse Trigonometric functions
- **11/9/2016**
  - **Wednesday**
- **11/10/2016**
  - **Thursday**
    - 4.8 Applications and Models
- **11/11/2016**
  - **Friday**
    - Lab Section 001 (CRN17557)
- **11/13/2016**
  - **Sunday**
    - HW due date
    - 4.5 & 4.6 & 4.7 & 4.8

#### WEEK 13
- **11/14/2016**
  - **Monday**
    - 5.1 Using fundamental Identities
- **11/15/2016**
  - **Tuesday**
    - 5.2 Verifying Trigonometric Identities
- **11/16/2016**
  - **Wednesday**
- **11/17/2016**
  - **Thursday**
    - 5.3 – 5.4 Solving Trig. Eq./ Sum and Difference Formulas
- **11/18/2016**
  - **Friday**
    - Lab Section 001 (CRN17557)
- **11/20/2016**
  - **Sunday**
    - HW due date
    - 5.1 & 5.2 & 5.3 & 5.4

#### WEEK 14
- **11/21/2016**
  - **Monday**
    - 8.1 Matrices and Systems of Equations
- **11/22/2016**
  - **Tuesday**
    - 8.2 Operations with Matrices
- **11/23/2016**
  - **Wednesday**
- **11/24/2016**
  - **Thursday**
    - No Class Thanksgiving
- **11/25/2016**
  - **Friday**
    - No Class Thanksgiving
- **11/27/2016**
  - **Sunday**
    - HW due date
    - 5.5

#### WEEK 15
- **11/28/2016**
  - **Monday**
    - 6.1– 6.2 Law of Sines / Law of Cosines
- **11/29/2016**
  - **Tuesday**
    - Review Ch.4 & Ch. 5 & 6.1 & 6.2
- **11/30/2016**
  - **Wednesday**
- **12/1/2016**
  - **Thursday**
    - EXAM 3 In class written exam
- **12/2/2016**
  - **Friday**
    - No Class Dead Day
- **12/4/2016**
  - **Sunday**
    - HW due date
    - 6.1 & 6.2

#### NOTE
- **12/8/2016**
  - **Thursday**
    - Retake EXAM 3
    - Register Online here: http://math.utep.edu/classes/retake
    - Retake EXAM 3
- **12/5–12/9**
  - **Mon to Fri**
    - Final week
    - No office hours during finals.
STUDENT QUICK START GUIDE

This Quick Start Guide provides information to help you start using WebAssign.

ENROLL WITH A CLASS KEY
You use a class key like MYSCHOOL 1234 5678 to enroll in your class.

NOTE: If you don’t have a class key, see webassign.net/manual/Student_Quick_Start_Guide_R.pdf.

1. Go to webassign.net/login.html and click I Have a Class Key.
2. Enter the class key your instructor gave you and click Submit.
3. If the correct class and section is listed, click Yes, this is my class.
4. Either provide your existing WebAssign account information or create a new account.
   • Select I already have a WebAssign account, enter your account information, and click Continue.
   • Select I need to create a WebAssign account, enter the requested information, and click Create My Account.

PURCHASE ACCESS
WebAssign gives you free access for two weeks after the start of class. To continue using WebAssign after that, either enter an access code or purchase access online.

NOTE: An Access Code included with some textbooks verifies that you have already purchased WebAssign access.

1. Verify your access code at webassign.net/user_support/student/cards.html.
2. Log in to WebAssign.
3. Select enter an access code.
4. Select your access code prefix.
5. Enter your access code and click Continue.

I have an access code
1. Log in to WebAssign.
2. Select purchase access online and click Continue.
3. Select items to purchase, confirm any license agreements, and click Enter payment information.
4. Provide your payment and contact information to PayPal and click Continue.
5. Review your order and click Complete purchase.
6. Close your receipt and start working in WebAssign.

I do not have an access code
1. Log in to WebAssign.
2. Select purchase access online and click Continue.
3. Select items to purchase, confirm any license agreements, and click Enter payment information.
4. Provide your payment and contact information to PayPal and click Continue.
5. Review your order and click Complete purchase.
6. Close your receipt and start working in WebAssign.

LEARN
Your current assignments are listed on the Home page for each class.
1. Click the assignment name.
2. Answer the assignment questions. WebAssign supports many different question types. Some questions display a tools palette or open in a new window.
3. Submit your answers.
4. Review your marks and feedback.
   Usually you will see ✔ or ✗ for each answer.
5. Change your incorrect answers and submit again.
6. When you are done, always click Log out.

LOG IN
Depending on your school, you might log in to WebAssign through a course management system, your school’s authentication server, or at webassign.net/login.html.

LOG IN AT WEBASSIGN.NET
1. Go to webassign.net/login.html.
2. Type your Username, Institution code, and Password.
   If you did not receive a password, click Forgot your password and create a password.
3. Click Log In.

IMPORTANT: The first time you log in, change your password.

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WebAssign is tested and supported for the following web browsers:
- Mozilla® Firefox® (38+)
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- Internet Explorer® / Microsoft® Edge (11+)
- Google® Chrome™ (44+)
- Windows, Mac OS X
- Apple® Safari® (8+)
- Mac OS X, iOS 8 or later on iPad®

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Configure the following settings in your Web browser.
- Allow cookies and pop-up windows from webassign.net.
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- change your username or password
- give extensions
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- give you extra submissions
- help you with the content of assignments

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MORE INFORMATION
Search the online help for answers to most questions: webassign.net/manual/student_guide/

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