Course Syllabus: Math 142.005 – Pre-Calculus Spring 2015

T/Th 11:00 am – 12:15 pm

Instructor: Adam Bowden
Office Location: Binnion 304
Office Hours: 1:00 – 2:00 PM Mon. through Fri.
Office Phone: 903-468-3331
Office Fax: 903-886-5945

University Email Address: adam.bowden@tamuc.edu
Faculty Web Page: sites.google.com/site/abowdentamuc

COURSE INFORMATION

Textbook: Precalculus, 6th Edition, by Redlin, Stewart and Watson. Parts or all of the following chapters will be covered: 1, 2, 5, 6, 7, 8, and 11. We may occasionally cover other activities or projects not in the text.

Course Description: Trigonometric functions and their graphs; radian measurement; solution of triangles; identities; logarithmic and exponential functions; trigonometric equations; applications of trigonometry; conic sections and their graphs. Prerequisite: High school geometry and two years of high school algebra or Math 1314.

Student Learning Outcomes: A student who passes this course will demonstrate through solving problems the ability to apply trigonometry to physical situations and theoretical problems. The student will have demonstrated problem solving ability that includes, but is not limited to, functions, identities, and graphical information. The student will be eligible to enroll in Calculus I.

Core Objectives:

- Critical Thinking: Students will be able to analyze, evaluate, or solve problems when given a set of circumstances or data. This common core learning objective will be assessed on the final exam using key questions that will fulfill these objectives.

- Communications: In written, oral, and/or visual communication, Texas A&M University - Commerce students will communicate in a manner appropriate to audience and occasion, with an evident message and organizational structure. This common core learning objective will be assessed using class activities or projects which involve class discussion.

- Empirical and Quantitative Skills: Students will be able to understand and utilize mathematical functions and empirical principles and processes. This common core learning objective will be assessed using in class discussion and projects, homework, and final exams.

COURSE REQUIREMENTS

Instruction: Instruction will include lectures, demonstrations and models, and some group work based on time available.

Attendance: Attendance will be taken each class. Students need to actively participate in class to receive credits. Attendance is a must to be able to do well in this class. It is expected that students follow the guidelines set forth by the Class Attendance Policy in the current Undergraduate Catalog.

If students represent an athletic team for this university, departmental team, scholastic team, choir, or other group and must miss class, notify me in writing with the appropriate documentation within one week of the absence in order not to be counted absent. Arrangements for make-up work will be made at that time.

Homework: Homework will be assigned almost every class period. The homework is a must for success in this class. Homework assignments will be due every week on Wednesday.
Tutoring: The following services are available for students seeking tutoring help:

- The Math Skills Center, located in Binnion 328, open Monday and Wednesday from 8am – 8pm, Tuesday and Thursday from 8am – 6pm, and Friday from 8am – 12pm, offers free tutoring help.

- The Academic Success Center also offers supplemental instruction/tutoring for students and their hours can be found on the university web site.

- The Mach III/TRIO Program is available for students who qualify for additional resources, such as private tutoring. In order to qualify, students must meet certain conditions, such as being a first-generation college student. For more information, contact TRIO at 903-886-5833 or in the Halladay Student Services building, Room 300.

- Supplemental instruction (SI) tutoring sessions will be given according to a schedule posted by your instructor.

Students can choose to use these services or any other on campus tutoring services that are approved by the Mathematics Department.

Quizzes: Quizzes will be given in class periodically. No make-up quizzes will be given, but the lowest quiz grade will be dropped. Be sure to attend all classes so you do not miss any quizzes.

Class Activities/Projects: Application problems with class discussion over related to course materials will be assigned during the semester. Be sure to attend all classes in order to participate in the class activities with class discussion.

Exams: There are four scheduled exams. An in class review and a set of review questions will be provided prior to each exam. Partial credit may be given on exams IF all work is neatly shown. CELL PHONES AND OTHER ELECTRONIC DEVICES MUST BE TURNED OFF AND STORED OUT OF THE STUDENT’S REACH. The only electronic device allowed during tests and quizzes is a stand-alone calculator (such as a TI-34, TI-83, TI-84, etc.), and only with the instructor’s permission.

No make-up exams will be given without prior notice of a university excused absence*. We realize that at times throughout the semester, emergency situations may arise that affect a student’s performance on an exam or even prevent a student from attending on an exam day. I can replace the lowest exam grade with the student’s grade on the final exam, provided the final exam score is higher. This provision will only be applied to ONE exam, so students should make every effort to be present and well-prepared for all exams.

* University Authorized Excuses: 1) Participation in a required/authorized university activity; 2) Verified illness; 3) Death in a student’s immediate family; 4) Obligation of a student at legal proceedings in fulfilling responsibility as a citizen; and others determined by individual faculty to be excusable (e.g., elective University activities, etc.)

These test dates are tentative and are subject to change:

<table>
<thead>
<tr>
<th>Test</th>
<th>Date</th>
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<tbody>
<tr>
<td>Test 1</td>
<td>2/12</td>
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<td>Test 2</td>
<td>3/12</td>
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<td>Test 3</td>
<td>4/7</td>
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<td>Test 4</td>
<td>4/30</td>
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Final Exam: The final exam will be a departmental, comprehensive exam. All students will take the exam at the same time on Tuesday, May 12, at 10:30am - 12:30pm. Please note that this is an unusual time and make your arrangements to be present.

* NO MAKE-UP FINAL EXAM WILL BE ALLOWED!!! *

GRADING

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<th>Component</th>
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<tbody>
<tr>
<td>Daily Grade (Attendance, Homework, Tutoring, Quizzes, and Projects)</td>
<td>15 %</td>
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<tr>
<td>Exams</td>
<td>60 %</td>
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<tr>
<td>Final Exam</td>
<td>25 %</td>
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Grade Scale: A = 90-100, B = 80-89, C = 70-79, D = 60-69, F = 59 or below
TECHNOLOGY REQUIREMENTS

**Technology Requirements:** The graphing calculator of TI 83/TI 84 or equivalent will be highly recommended. Calculators other than Texas Instruments calculators may be used but classroom instruction on calculators will be given for TI equipment only. **Note:** Calculators that solve problems for students, including but not limited to TI-Nspire, TI 89 or higher, Casio Prizm, Casio Touch or higher are **NOT** allowed to be used for this class.

Students need to check their e-mail regularly with the address that they have provided to the instructor for class announcements.

**Calculator Loan Program:** The Mathematics Department has set up a calculator loan program to support students. Students can borrow a calculator for a semester with a fee ($10 to $15 for TI-83/84). It is first come, first served basis.

COMMUNICATION AND SUPPORT

**Interaction with Instructor Statement:** It is important that students are actively engaged in class activities. Questions are welcome in the classroom. Students are welcome to schedule with instructors for extra help outside classroom during office hours.

**Student Health Services** are located at Henderson Hall (Corner of Lee St. and Monroe St.). It offers health care to the student body of Texas A&M University – Commerce. It provides primary health care services including treatment of illness, injury, and women’s health. **Tel:** (903) 886-5853.

**The University Police Department** is located at Henderson Hall. For emergencies, please call: 911. For non-emergencies, please call: 903.886.5868.

COURSE AND UNIVERSITY PROCEDURES/Policies

**Academic Integrity:** While majority of students are honest in doing their school work. However, due to recent cheating events, action must be taken to protect the academic integrity of classrooms. **There is a NO TOLERANCE policy for cheating. If a student is caught cheating, he/she will either get a zero for the test or fail this course.** Cheating in this course is defined as the following:

- Giving or receiving answers during an exam or quiz.
- Viewing the exam or quiz answers of nearby classmates.
- Having notes/practice work available during quizzes or tests.
- Possession or access to test items before the test is given.
- Deception in getting an excused absence to obtain the undeserved opportunity to make-up work.
- Use of cell phones or text messaging technology during exams or quizzes. **Students may NOT use the calculator on their cell phones or any other similar electronic devices. IF ONE OF THESE DEVICES IS AVAILABLE, IN ANY WAY, DURING AN EXAM OR QUIZ, THE STUDENT WILL BE GIVEN AN AUTOMATIC “0” ON THE ASSIGNMENT.**
- Improper citations in written works, or using another person’s ideas and words as your own without giving proper credit.
- **Any** method, no matter how well rationalized or accepted, which improves a person’s grade by any means other than study and skillful performances on exams and/or other assignments.

Students found guilty of an act of academic dishonesty in this course will be subject to receiving an “F” in this course.

**Classroom Behavior:** Appropriate classroom behavior is required to attend this class. All cell phones and electronic devices must be put on silent or turned off during class. Phones and electronics are distractions for instructor and the other students in the class. All people will be treated with respect and talking that disrupt the class is not allowed. If disruptions occur during class time, a student will be asked to leave class and will earn a zero on any applicable grades for that class period. Serial disrupters will be asked to withdraw from this class.
**Early Intervention for First Year Students:** Early intervention for freshmen is designed to communicate the University’s interest in their success and a willingness to participate fully to help students accomplish their academic objectives. Grades for students in freshmen level classes will be reported to the Registrar’s Office at the end of the fifth week of class during the fall and spring semesters. The Registrar’s Office will report grades to students, Advising Services, Academic Departments (faculty advisors) and mentors. This procedure will allow students to be knowledgeable about their academic progress early in the semester. The university, through Advising Services, faculty advisors and mentors, will take steps to assist students who may be experiencing difficulty to focus on improvement and course completion. Grade reports will be mailed by the end of the sixth week of the semester.

**University Specific Procedures ADA Statement, Students with Disabilities:** The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you have a disability requiring an accommodation, please contact: Office of Student Disability Resources and Services, Texas A&M University-Commerce, Gee Library- Room 132, Phone (903) 886-5150 or (903) 886-5835, Fax (903) 468-8148, StudentDisabilityServices@tamuc.edu

**Anti-Discrimination:** This statement presents the University’s commitment to a safe, accepting environment for all students regardless of sexual orientation, gender identification, or gender expression: A&M-Commerce will comply in the classroom, and in online courses, with all federal and state laws prohibiting discrimination and related retaliation on the basis of race, color, religion, sex, national origin, disability, age, genetic information or veteran status. Further, an environment free from discrimination on the basis of sexual orientation, gender identity, or gender expression will be maintained.

**Student Conduct:** “All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment.” ([Student’s Guide Handbook, Policies and Procedures, Conduct]) Rude and/or disruptive behavior will not be tolerated. No electronic devices (except calculators) are allowed during class time. Cell phones, smart watches, and other electronic devices are to be put away during class time and exams. The use of vapor/e-cigarettes, smokeless tobacco, snuff and chewing tobacco are prohibited inside classrooms and university buildings.

**TENTATIVE SCHEDULE**

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<tr>
<td>Syllabus and Review Chapter 1</td>
<td>Review Chapter 1, 2.1, and 2.5</td>
<td>2.5, 2.7, 6.1, and 6.2</td>
<td>Review and Exam 1</td>
<td>5.1, 5.2, and 6.3</td>
<td>5.3, 5.4, and 6.4</td>
<td>6.5 and 6.6</td>
<td>Review and Exam 2</td>
<td>7.1, 7.2, and 7.3</td>
<td>Week 5 (Feb. 16 &amp; 18)</td>
<td>7.4, 7.5, and Review</td>
<td>Exam 3, 8.1, and 8.2</td>
<td>8.3, 11.1, and 11.2</td>
<td>11.2, 11.3, and 11.4</td>
<td>Review and Exam 4</td>
<td>Review for Final Exam</td>
<td>FINAL EXAM, 1:15 – 3:15pm, NOTE SPECIAL TIME!!</td>
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**By remaining enrolled in this course, all students agree to abide by the policies of this class, as stated in the syllabus.**