First Day Handout for Students
MATH 1316 TRIGONOMETRY - Spring 2010
Section 007 (06263) 12:00 – 1:15 MW PIN 610

Instructor: V Payne, Ph.D.
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Office Phone: 223-8178
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Office Hours:
MW 7:30 – 8:45; 10:25 - 12
TTh 7:30 – 11; 12:40 – 1

Office Phone: Send an email or a phone message to arrange
Other times by appointment:
for a meeting outside my regular office hours.

COURSE DESCRIPTION
MATH 1316 TRIGONOMETRY (3-3-0). This course is designed for students majoring in mathematics, science,
engineering, or certain engineering-related technical fields. Content includes the study of trigonometric functions
and their applications, trigonometric identities and equations, vectors, and the complex number system.
Prerequisites: MATH 1314 (College Algebra with a C or better. A second option is an appropriate secondary
school course (one semester of precalculus or trigonometry) and a satisfactory entrance score on ACC’s
Mathematics Assessment Test. A third option is an appropriate higher score on ACC’s Mathematics
Assessment Test. ( ) Course Type: T

REQUIRED TEXTS/MATERIALS
The required textbook for this course is Trigonometry, by Lial, Hornsby and Schneider, 9th edition
(ISBN 10-321-52885-9)

Trigonometry, by Lial, Hornsby and Schneider, 9th edition, MyMathLab (ISBN: 0321536002) is included at no
extra charge when a new text is purchased. Used texts will not include MyMathLab. See below for optional
materials options.

Optional materials:
- MyMathLab online software (includes an electronic version of the text, multimedia learning aids such as
  videos and animations, and practice tests that generate a personalized study plan) To use MyMathLab,
you'll need your own access number and the Course ID. The course ID for this class is payne19477.
The course acc96564 is a generic course that can be used by all students, but no record of your work
will be saved if you use that course.

Purchase options:
- Purchase the required textbook alone, either used or new, from a local bookstore.
- The publisher provides a value package to the bookstores for the same price as the new textbook
  alone. The value package includes a new copy of the required text and MyMathLab software access
code. These will be available in the local bookstores. The ISBN for this package is 0321536002
- MyMathLab can be purchased alone online for $70 from http://www.mymathlab.com/buying.html and it
  includes an online version of the text.

Calculator: Students need either a scientific or business calculator. If a student cannot purchase one,
calculators are available from the library. Graphing calculators are NOT required, but you will use graphing
technology in some sections of the book. Most ACC faculty are familiar with the TI family of graphing
calculators. Hence, TI calculators are highly recommended for student use. Other calculator brands can also be
used. Your instructor will determine the extent of calculator use in your class section.

INSTRUCTIONAL METHODOLOGY: This course is taught in the classroom primarily as a lecture/discussion
course.

COURSE RATIONALE
This course, intended for mathematics, science, and engineering majors, is designed to prepare students for the
calculus sequence. The six trigonometric functions are studied with the goals of developing a deeper
understanding of both general function behavior and periodic function behavior, exploring those applications that have trigonometric models, and acquiring further proficiency with symbol manipulation.

**COURSE EVALUATION/GRADING SCHEME**
There will be three (3) exams and a **required** comprehensive final exam. The three exams will each count 20%, the final will count 30%, and homework average will count 10% toward the grade for the course. Homework can be done using MyMathLab. If you have circumstances that prevent you from using MyMathLab, you must make special arrangements with the instructor. Occasionally, you will be asked to submit written homework to ensure that you are using good notation and showing an appropriate amount of work. Submitted problems and their due dates will be announced in class. Grades on the submitted problems will contribute to your homework average.

The course ID for this course is payne19477.

**COURSE POLICIES**

**Missed exam policy:** The final exam grade may replace one low or missed exam grade.

**Late work policy (if applicable):** No late work will be accepted.

**Class participation expectations:** Each student is expected to participate in all course activities.

**Reinstatement policy (if applicable):** If a student is withdrawn from the course, that student will not be reinstated.

*Statement on Student Discipline* As a courtesy to other students, please turn off cell phones while in class and stay in class until it is over unless you have an emergency. Classroom behavior should support and enhance learning. Behavior that disrupts the learning process will be dealt with appropriately, which may include having the student leave class for the rest of that day. In serious cases, disruptive behavior may lead to a student being withdrawn from the class. ACC’s policy on student discipline can be found in the Student Handbook page 32 or on the web at [http://www.austincc.edu/marketing/handbook/student_handbook_02-03.pdf](http://www.austincc.edu/marketing/handbook/student_handbook_02-03.pdf).

**Attendance Policy:** I do not drop students for lack of attendance. If you stop attending you will receive an F if you do not drop the class.

**Withdrawal Policy:** It is the student's responsibility to initiate all withdrawals in this course. The instructor may withdraw students for excessive absences (5) but makes no commitment to do this for the student. After the last day to withdraw, neither the student nor the instructor may initiate a withdrawal.

The last day to withdraw is **Monday, April 26, 2010**.

**Incomplete Grade Policy:** Incomplete grades (I) will be given only in very rare circumstances. Generally, to receive a grade of "I", a student must have taken all examinations, be passing, and after the last date to withdraw, have a personal tragedy occur that prevents course completion.

**COMMON COURSE OBJECTIVES:** Common course objectives are shown below. They can also be found at: [http://www2.austin.cc.tx.us/mthdept2/tfcourses/obj1316.htm](http://www2.austin.cc.tx.us/mthdept2/tfcourses/obj1316.htm)

**Course-Specific Support Services:** Sometimes sections of MATH 0155(1-0-2) are offered. This lab is designed for students currently registered in Trigonometry MATH 1316. It offers individualized and group setting to provide additional practice and explanation. This course is not for college-level credit. It may be repeated for up to two credit hours.

**Learning Labs**
ACC main campuses have Learning Labs which offer free first-come first-serve tutoring in mathematics courses. The locations, contact information and hours of availability of the Learning Labs are posted at: [http://www.austincc.edu/tutor](http://www.austincc.edu/tutor)  The learning lab at PIN is in room 600.

**TESTING CENTER POLICY:** Some exams may be given in the PIN Testing Center, and you will be required to show an ACC photo ID. ACC Testing Center policies can be found at: [http://www.austincc.edu/testctr/](http://www.austincc.edu/testctr/)
STUDENT SERVICES: The web address for student services is:

Student Handbook
The ACC student handbook can be found at:  http://www3.austincc.edu/evpcss/handbk/toc.htm.

INSTRUCTIONAL SERVICES: The web address is:  http://www3.austincc.edu/evpcss/memos/reference.htm,
then click on “Campus Based Student Support Overview”.

Statement on Students with Disabilities
Each ACC campus offers support services for students with documented physical or psychological disabilities. Students with disabilities must request reasonable accommodations through the Office of Students with Disabilities on the campus where they expect to take the majority of their classes. Students are encouraged to do this three weeks before the start of the semester.

Students who are requesting accommodation must provide the instructor with a letter of accommodation from the Office of Students with Disabilities (OSD) at the beginning of the semester. Accommodations can only be made after the instructor receives the letter of accommodation from OSD.

Statement on Scholastic Dishonesty
Acts prohibited by the college for which discipline may be administered include scholastic dishonesty, including but not limited to, cheating on an exam or quiz, plagiarizing, and unauthorized collaboration with another in preparing outside work. Academic work submitted by students shall be the result of their thought, work, research or self-expression. Academic work is defined as, but not limited to tests or quizzes (whether taken electronically or on paper), projects (either individual or group), classroom presentations; and homework.

Statement on Scholastic Dishonesty Penalty
Students who violate the rules concerning scholastic dishonesty will be assessed an academic penalty that the instructor determines is in keeping with the seriousness of the offense. This academic penalty may range from a grade penalty on the particular assignment to an overall grade penalty in the course, including possibly an F in the course. ACC’s policy can be found in the Student Handbook page 33 or on the web at:
http://www.austincc.edu/marketng/handbook/student_handbook_02-03.pdf

Statement on Academic Freedom
Institutions of higher education are conducted for the common good. The common good depends upon a search for truth and upon free expression. In this course the professor and students shall strive to protect free inquiry and the open exchange of facts, ideas, and opinions. Students are free to take exception to views offered in this course and to reserve judgment about debatable issues. Grades will not be affected by personal views. With this freedom comes the responsibility of civility and a respect for a diversity of ideas and opinions. This means that students must take turns speaking, listen to others speak without interruption, and refrain from name-calling or other personal attacks.

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Classroom behavior should support and enhance learning. Behavior that disrupts the learning process will be dealt with appropriately, which may include having the student leave class for the rest of that day. In serious cases, disruptive behavior may lead to a student being withdrawn from the class. ACC’s policy on student discipline can be found in the Student Handbook page 32 or on the web at:
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Calendar/Syllabus/Suggested Testing Schedule:

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<th>16 -Week Semester</th>
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<td>Week 1: 1.1, 1.2,</td>
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<td>Week 2: 1.3, 1.4, 2.1</td>
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<td>Week 3: 2.2, Supplement, 2.3, 2.4</td>
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<td>Week 4: 2.5, Test 1 (Chs. 1&amp;2)</td>
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<td>Week 5: 3.1, 3.2, 3.3</td>
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<td>Week 6: 3.4, 4.1, 42</td>
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<td>Week 7: 4.3, 4.4</td>
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Please note: Schedule or assignment changes may occur during the semester. Any changes will be announced in class.
Prerequisites for Calculus

There are two calculus sequences at ACC and at most colleges – Business Calculus and Calculus. The prerequisite sequence is different for these. Depending on background, students may start the prerequisite sequence at different places.

Intermediate Algebra (MATD 0390) → College Algebra*(MATH 1314) → **Trigonometry (MATH 1316) → Precalculus (MATH 2412) → Calculus I (MATH 2413) → Calculus II (MATH 2414) → Calculus III (MATH 2415)

Intermediate Algebra (MATD 0390) → College Algebra (MATH 1314) → Math for Bus & Eco (MATH 1324) → Business Calculus I (MATH 1425) → Business Calculus II (MATH 1426)

Where to start: The only way that students may skip courses in a sequence is to begin higher in the sequence, based on current knowledge of material from high school courses.
1. A student who needs a review of high school Algebra II will start in Intermediate Algebra (or below.)
2. A student who completed high school Algebra II, but no higher, and whose assessment test score indicates that he/she remembers that algebra, will start in College Algebra or Math for Business & Economics. A substantially higher assessment test score enables the student to start in Trigonometry.
3. A student who completed some precalculus, elementary analysis, or trigonometry in high school, and whose assessment test score indicates that he/she remembers algebra, is eligible to start higher in the sequence than College Algebra. Check the catalog or the math web page.***

* The material in the Trigonometry course requires that students are quite adept with the skills from high school Algebra II (Intermediate Algebra). Some students will achieve that level of skill in the College Algebra course if their placement score is high enough, while others need an additional semester of work on algebra that is done in two courses, Intermediate Algebra and College Algebra.

** Some students who are very successful in College Algebra are tempted to skip either Trigonometry or Precalculus and enroll in Calculus I. That is not acceptable. Trigonometry topics are essential to success in Calculus, and while it is true that the topic list for Precalculus has only a few additions from the topic list for College Algebra, the level of sophistication of the presentation and the problems on all topics is greater in Precalculus. That increased sophistication is necessary for an adequate background for the Calculus sequence.***

Notes about the Business sequence: Texas State University requires Math for Business and Economics and Business Calculus I. Students who will attend the UT College of Business must complete the entire Business Calculus sequence before transferring. For more information, including requirements for UT economics students, see http://www.austincc.edu/mthdept2/notes/1425.html

*** For additional information, including prerequisite review sheets for most courses, see http://www.austincc.edu/math/