MATH 2413 Calculus I – Fall 2010
First Day Handout for Students

Synonym & Section: Time: Room:
009 (18909) 10:35 12:20 MW PIN 606
020 (18920) 12:25 2:10 TH PIN 606

Instructor: Vicki Payne, Ph.D. Office Hours
Office: PIN 1021
Office Phone: 223.8178
E-mail: vpayne@austincc.edu
Web Page: www.austincc.edu/vpayne

The best way to communicate with me when I’m not at school is by email.
Check my web site for first-day handouts, assignments, my schedule, answers to worksheets, announcements, etc.

COURSE DESCRIPTION
MATH 2413 CALCULUS I (4-4-0). A standard first course in calculus. Topics include inequalities; functions; limits; continuity; the derivative; differentiation of algebraic functions and trigonometric functions; Newton's method; applications of the derivative; the integral; integration of algebraic functions and the sine and cosine functions; numerical integration; and applications of the integral. Prerequisites: MATH 2412 with C or better or equivalent. Another option is an appropriate secondary school course (one year of precalculus or the equivalent, including trigonometry, with a B or better) and a satisfactory entrance score on the ACC Mathematics Assessment Test.

REOUIRED TEXTS/MATERIALS


REQUIRED Technology You must have access to technology which enables you to (1) Graph a function, (2) Find the zeroes of a function. Because I'm familiar with the TI family of graphing calculators, TI calculators are highly recommended for student use. Other calculator brands can also be used, but TI-89 calculators and other brands that have features that produce exact solutions are not allowed. Graphing calculators may be used to demonstrate concepts and check solutions to many types of problems, but you are required to work each problem using good notation.

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

COURSE RATIONALE
This course is the first course in the traditional calculus sequence for mathematics, science and engineering students. It is part of what could be a four-semester sequence in calculus courses. The approach allows the use of technology and the rule of four (topics are presented geometrically, numerically, algebraically, and verbally) to focus on conceptual understanding. At the same time, it retains the strength of the traditional calculus by exposing the students to the rigor of proofs and the full variety of traditional topics: limits, continuity, derivative, applications of the derivative, and an introduction to the definite integral.
COURSE EVALUATION/GRADING SCHEME

- Homework will be collected weekly and one or more problems will be graded. No late homework will be accepted but at least three (3) homework grades will be dropped.

- There will be four (4) exams and an optional comprehensive final exam. The final exam will be given in class during the last scheduled class meeting and may replace ONE low or missed exam or homework average. Each exam, the final, and the homework average will count equally. **On exams after the first exam, there may be a problem similar to one or more problems from previous exams.**

COURSE POLICIES

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

**Late work policy:** No late work will be accepted.

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

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

**Attendance Policy:** Students with excessive absences WILL NOT be dropped by the instructor. Do not expect the instructor to drop you because you have stopped attending. It is the student's responsibility to initiate all withdrawals in this course. **Students who stop attending and do not withdraw will receive an F.**

**Withdrawal Policy:** It is the student's responsibility to initiate all withdrawals in this course. The instructor may withdraw students for excessive absences (4) but makes no commitment to do this for the student. After the last day to withdraw, **Thursday, November 18, 2010,** neither the student nor the instructor may initiate a withdrawal.

**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 which prevents course completion.

COMMON COURSE OBJECTIVES: Common course objectives should be included. They can be found at: [http://www2.austin.cc.tx.us/mthdept2/tfcourses/obj2413.htm](http://www2.austin.cc.tx.us/mthdept2/tfcourses/obj2413.htm)

**Course-Specific Support Services:** Sometimes sections of MATH 0187 (1-0-2) are offered. This lab is designed for students currently registered in Calculus I MATH 2413. It offers individualized and group setting to provide additional practice and explanation. This course is not for college-level credit. Repeatable 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 the Pinnacle campus is in room PIN 600.

**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](http://www.austincc.edu/marketng/handbook/student_handbook_02-03.pdf).

**Statement on Student Discipline**
Classroom behavior should support and enhance learning. **Please turn off cell phones while in class and limit leaving the class unless it’s an emergency.** 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/marketng/handbook/student_handbook_02-03.pdf.

**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 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.

**TESTING CENTER POLICY:** ACC Testing Center policies can be found at: http://www.austincc.edu/testctr/

**STUDENT SERVICES:** The web address for student services is: http://www.austincc.edu/support
The ACC student handbook can be found at: http://www.austincc.edu/handbook

**Calendar/Syllabus/Suggested Testing Schedule:**

**16-Week Semester**

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*Please note: schedule changes may occur during the semester. Any changes will be announced in class.*