Instructor: Dr. Thomas R. Boucher, PhD  
Binnion 310  
Email (preferred): thomas.boucher@tamuc.edu  
Phone: x5947  
Office Hours: MW 12:00-1:00, T 12:00-4:30, R 1:00-4:30, or by appointment

Note: This syllabus details the rules and procedures by which this course is to be conducted. You are responsible for reading this syllabus and knowing the contents – enrollment in this course constitutes an acknowledgement of this responsibility and implied consent to these rules and procedures.

Description: This course examines differential and integral calculus of functions of one variable, as follows. Topics include limits; continuity; derivatives; curve sketching; applications of the derivative; the definite integral; derivatives and integrals of the logarithmic, exponential, and trigonometric functions; and use of computer technology.

Prerequisite: Two years of high school algebra and trigonometry or Math 142, Precalculus or equivalent.

Student Learning Outcomes: Upon successful completion of this course a student will understand

- limits and continuity;
- the Fundamental Theorem of Calculus;
- definition of the derivative of a function and techniques of differentiation;
- applications of the derivative to maximizing or minimizing a function;
- the chain rule, mean value theorem, and rate of change problems;
- curve sketching;
- definite and indefinite integration of algebraic, trigonometric, and transcendental functions, with an application to calculation of areas.

Text:  

Technology: The Math department has set up a calculator loan program (TI-83/84) to support students. Students can borrow a calculator for a semester for a fee ($10 for TI-83/84). Go to the Math department office in BIN 305 to get a calculator.

eCollege: I will get an eCollege coursesite up and running as soon as I am able. All handouts, grades, etc. will be posted on the site.

Topics covered: see Class Schedule.

Grading: on a standard 100% scale:

- HW: 15%
- EXAMS: 15% each
- FINAL: 25%
- SI Attendance Bonus: up to 5 points added to final numeric average
Disputed grades will only be changed if graded assignments are produced which indicate the recorded grade is erroneous.

**Exams:** There are 4 exams and a cumulative final. There will be no makeup exams. With proper documentation of a valid excuse for missing an exam, the % of your grade due to that exam will be rolled over into the cumulative final; absent such documentation a missed exam counts as a zero. If you know beforehand that you will be missing an exam, speak to me and we can arrange for you to take the exam BEFOREHAND.

**Exam schedule:**
- **Exam #1** – Tuesday, February 5th
- **Exam #2** – Tuesday, February 26th
- **Exam #3** – Tuesday, March 26th
- **Exam #4** – Tuesday, April 23rd
- **Final** – Tuesday, May 7th, 10:30am – 12:30pm

**Homework:** will be assigned in class and is due as indicated. No late homework will be accepted. You are free (encouraged, in fact) to work with others; however, each student must submit his/her own set of solutions. Occasionally, in-class projects will be assigned and will count as a HW grade. I will drop the two lowest grades before computing your average.

**Attendance/Class Participation/Academic Integrity:** Students are expected to attend all lectures in a timely fashion and to participate in classroom and group discussions and activities; therefore no record of attendance is necessary.

**Note:** I reserve the right to give unannounced quizzes at any time. These will count as a HW grade.

**ADA Statement:** 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, email: StudentDisabilityServices@tamuc.edu

**Basic Tenets of Common Decency:** “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.) This means that rude and/or disruptive behavior will not be tolerated.

**Tutoring:** Services up to the level of Calculus I provided by the Math Skill Center (Binnion Hall Room 328) with the following hours: M and W, 8am–8pm; T and R, 8am–6pm; and F 8am–3pm.

**Supplemental Instruction:** Cassidi Jacobs, your TA, will be available Fridays at 11am in BIN 301. I strongly recommend you take advantage of this resource. During a study session, the TA will
- Explain and do exercises that students had trouble with
- Do some more important examples
- Review before a test
- Review use of technology, graphing calculators and Mathematica, depending on the class requirement.
- Facilitate discussions on solutions, concepts and applications
Supplemental Instruction Attendance Bonus:
- 1-5 = 1 point
- 6-8 = 2 points
- 9-11 = 3 points
- 12-14 = 4 points
- 15 = 5 points

Tentative Class Schedule:

Note: Chapters and sections refer to the 7th edition of Stewart. Topics in () are time-permitting.

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Final Exam: Tuesday, May 7th 10:30am – 12:30pm