Mathematics Lecture 2413.003
Calculus Lab 2413.231
Lecturer: Dr. Aubrey Rhoden

Office CI 213-B
Phone TBD (Office)

Email aubrey.rhoden@tamucc.edu
Phone 361-825-2459(Math Department) Hours Mon. 1:30-3:00 pm
Class Meetings Lecture(2413-003):
Tue. and Thur. 2:00-3:15 pm in EN 106
Lab(2413-231):
Thur. 3:30-5:20 pm in CI 222

Textbook
Calculus: Early Transcendentals, 7th Ed. By J. Stewart

Course Prerequisite
Math 1314 (College Algebra) and Math 1316 (Trigonometry),
Math 2312 (Pre-calculus), or placement beyond Math 2312.

You will need to have 6 – 8 hours available weekly to study outside of class
in order to succeed in this course.

Learning Outcomes for M2413
• Calculate limits and apply the concept of limits to continuity, derivatives
  and other contexts.

• Calculate derivatives of functions in a variety of ways: from the definition,
  by applying rules to a standard catalog of functions, for implicitly defined
  functions and for related rates.

• Interpret derivatives as slopes of tangent lines and instantaneous rates of
  change. Relate units of a derivative to the units of the dependent and
  independent variable. Also, find and apply linearizations and differentials
  of functions.

• Apply derivatives to optimization of functions, determining geometric fea-
  tures of graphs of functions, and to sketching graphs of functions.

• Determine if functions meet hypotheses of theorems and draw appropriate
  conclusions.
• Use Riemann sums to approximate areas under curves and estimate accumulations of rates. And find anti-derivatives and apply them to evaluate indefinite integrals and, using the Fundamental Theorem of Calculus, to evaluate definite integrals.

• Be able to integrate using substitution.

**Electronic Communication Statement:** Email is the prime means of communicating outside of class time and office hours. All students are assigned a University email address which will be the only email accounts to correspond with the instructor so no gmail or yahoo accounts. Students should check their email accounts regularly.

### Details About the Course

#### Midterms and Finals:

- **Midterm Exam 1** 15%
- **Midterm Exam 2** 15%
- **Midterm Exam 3** 15%
- **Final Exam** 20%
- **Homework** 10%
- **Lab Grade:**
  - **Labs** 20%
  - **Quizzes** 5%

**Make-up Policy:** If you have a conflict with either midterm or final you must contact the contact the instructor two weeks in advance of the exam. There will be no make-up exams, homework or quizzes without documentation of the appropriate excuse. Work is not an excuse.

**Drop Policy:** The last day this semester to drop a course is November 7. Any student who drops the course on or before November 7 will receive a W. Should dropping the course be the best course of action, you must initiate the process to drop the course by going to the Student Services Center and filling out a course drop form. Just stopping attendance and participation WILL NOT automatically result in your being dropped from the class.

**State Law Regarding Course Drops:** The State of Texas has enacted a statute that applies to students who enroll in public institutions of higher education as first-time freshmen in Fall 2007 or later. Under section 51.907 of the Texas Education Code, an institution of higher education may not permit a student to drop more than six courses, including any course a transfer student
has dropped at another institution of higher education. Any course a student drops after the census date published in the class schedule or academic calendar (which for Fall 2014 is Sept 11th) is counted toward the six-course limit unless specifically identified as being exempt. If you have any questions please send an email with phone number to admiss@tamucc.edu and a representative of the Office of Admissions & Records will contact you.

Weekly Quizzes and Homework: Homework will be assigned each week and is due exactly one week later. LATE HOMEWORK WILL NOT BE ACCEPTED. You will be given in-class (during lab meetings) quizzes which assume your having completed and mastered the homework. Your 10 best quiz grades will be used to calculate your quiz average.

Attendance: Attendance for this course and its associated labs is required. Excellent attendance records as well as positive group evaluations will help your grade in that borderline course-grade decisions will be influenced by these records. It is in your best interest to arrive on time to class (quizzes take place during the first ten minutes of lab and homework is due at the beginning of class).

Lab Information: Again, attendance is required. In the lab, you will:

- work on computer based labs to learn how to program the mathematics taught during lecture.
- take weekly quizzes (except for weeks in which midterms are given) based upon mastery of the suggested homework assignments.

Help outside of class time: My office hours are given above. These are times when I will be available in my office to discuss the material/homework/tests. No appointment is necessary for those times. If, however, those times are inconvenient for you, then make an appointment with me for another time (e.g., email me stating the time you prefer). Please use the subject heading "Math 2413 Student Question" when sending Dr. Rhoden e-mail and identify yourself (full name) in the communication.

Important dates:

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<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>August 27</td>
<td>First Day of Classes</td>
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<td>September 1</td>
<td>Labor Day</td>
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<td>September 3</td>
<td>Last Day to Late Register</td>
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<td>November 7</td>
<td>Last Day to Drop</td>
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<td>November 27-28</td>
<td>Thanksgiving Break</td>
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<td>December 2</td>
<td>Last Day of Classes</td>
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Class Policies

- This class is run for the mathematical development of all participants. All students must accept responsibility for participating and consequences of
not participating. All are encouraged to express personal views with an emphasis on evidence-based claims. An inviting, lively and informative discussion will ensue from a spirit of mutual respect and acknowledgement.

- Please silence phones and beepers before coming to class. If you need to take a call, please step out so as to not distract your colleagues from the business at hand.

- All absences from class or exams will be considered unexcused unless they are documented in advance as excusable with the instructor or as soon as possible in the case of emergencies. No credit will be awarded for work missed resulting from unexcused absences.

- Academic Integrity/Plagiarism: University students are expected to conduct themselves in accordance with the highest standards of academic honesty. Academic misconduct for which a student is subject to penalty includes all forms of cheating, such as illicit possession of examinations or examination materials, falsification, forgery, complicity or plagiarism. (Plagiarism is the presentation of the work of another as ones own work.) In this class, academic misconduct or complicity in an act of academic misconduct on an assignment or test will result in a grade of zero (0) on that assignment or an F in the class, depending on circumstances.

- Classroom/professional behavior: Texas A&M University-Corpus Christi, as an academic community, requires that each individual respect the needs of others to study and learn in a peaceful atmosphere. Under Article III of the Student Code of Conduct, classroom behavior that interferes with either (a) the instructors ability to conduct the class or (b) the ability of other students to profit from the instructional program may be considered a breach of the peace and is subject to disciplinary sanction outlined in article VII of the Student Code of Conduct. Students engaging in unacceptable behavior may be instructed to leave the classroom. This prohibition applies to all instructional forums, including classrooms, electronic classrooms, labs, discussion groups, field trips, etc.. Also, Texas A&M University-Corpus Christi has a diverse student population that represents the population of the state. Our goal is to provide you with a high quality educational experience that is free from repression. You are responsible for following the rules of the University, city, state and federal government. We expect that you will behave in a manner that is dignified, respectful and courteous to all people, regardless of sex, ethnic/racial origin, religious background, sexual orientation or disability. Behaviors that infringe on the rights of another individual will not be tolerated.

- Grade Appeals (College of Science and Engineering Version): As stated in University Procedure 13.02.99.C2.01, Student Grade Appeal Procedures, a student who believes that he or she has not been held to appropriate academic standards as outlined in the class syllabus, equitable evaluation procedures, or appropriate grading, may appeal the final grade given
in the course. The burden of proof is upon the student to demonstrate the appropriateness of the appeal. A student with a complaint about a grade is encouraged to first discuss the matter with the instructor. For complete details, including the responsibilities of the parties involved in the process and the number of days allowed for completing the steps in the process, see University Procedure 13.02.99.C2.01, Student Grade Appeal Procedures. These documents are accessible through the University Rules website at http://www.tamucc.edu/provost/university_rules/index.html, and the College of Science and Engineering Grade Appeals webpage (http://sci.tamucc.edu/students/GradeAppeal.html). For assistance and/or guidance in the grade appeal process, students may contact the chair or director of the appropriate department or director of the appropriate department or school, the Office of the College of Science and Engineering Dean, or the Office of the Provost.

- **Disabilities Accommodations:** 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 believe you have a disability requiring an accommodation, please call or visit Disability Services at (361) 825-5816 in Corpus Christi Hall 116.

- **Notice to Veterans:** If you are a returning veteran and are experiencing cognitive and/or physical access issues in the classroom or on campus, please contact the Disability Services office for assistance at (361) 825-5816.

- **Statement of Academic Continuity:** In the event of an unforeseen adverse event, such as a major hurricane and classes could not be held on the campus of Texas A&M University Corpus Christi; this course would continue through the use of Blackboard and/or email. In addition, the syllabus and class activities may be modified to allow continuation of the course. Ideally, University facilities (i.e., emails, web sites, and Blackboard) will be operational within two days of the closing of the physical campus. However, students need to make certain that the course instructor has a primary and a secondary means of contacting each student.

- **Changes.** The instructor may amend the syllabus at any time prior to the final exam by announcing the changes in class.