Calculus II Math 2414-002
Department of Mathematics and Statistics
Fall 2019

A. COURSE INFORMATION

Course number/section: Math 2414-002
Class meeting time: MW 7:00-8:15 PM
Class location: CS 108
Course Website: bb9.tamucc.edu

B. INSTRUCTOR INFORMATION

Instructor: Dr. Aubrey Rhoden
Office location: CI 213B
Office hours: TWR 1-3 pm
Telephone: 361-825-3445
e-mail: aubrey.rhoden@tamucc.edu
Appointments: Appointments outside of office hours are available by request

C. COURSE DESCRIPTION

Catalog Course Description
Integration, applications of integration, especially to differential equations, sequences, series, Taylor polynomials and series. Contains a laboratory component.

D. PREREQUISITES FOR THE COURSE

Prerequisites
Math 2413 (Calculus I) Fall, Spring, Summer.

Corequisites
Enrollment in a lab section

E. REQUIRED TEXTBOOK(S), READINGS AND SUPPLIES

Required Textbook(s)
Calculus: Early Transcendentals, 8th Ed. By J. Stewart

Optional Textbook(s) or Other References
none

Supplies
Paper and pen or pencil
F. STUDENT LEARNING OUTCOMES AND ASSESSMENT

Assessment is a process used by instructors to help improve learning. Assessment is essential for effective learning because it provides feedback to both students and instructors. A critical step in this process is making clear the course’s student learning outcomes that describe what students are expected to learn to be successful in the course. The student learning outcomes for this course are listed below. By collecting data and sharing it with students on how well they are accomplishing these learning outcomes students can more efficiently and effectively focus their learning efforts. This information can also help instructors identify challenging areas for students and adjust their teaching approach to facilitate learning.

By the end of this course students should be able to:

1. Evaluate integrals by the Fundamental Theorem of Calculus, substitution, integration by parts, trigonometric substitution, and by using trigonometric identities to simplify an integrand.
2. Use integrals to determine volumes by using washers (slicing) or by using cylindrical shells and determine surface areas or curve lengths.
3. Determine whether an integral is an improper integral and determine whether an improper integral converges.
4. Determine convergence/divergence of a sequence.
5. Determine convergence/divergence of an infinite series using the integral, comparison, root or ratio test.
6. Determine the interval of convergence of a power series.
7. Find the Taylor or MacLaurin series for elementary functions.
8. Graph a parametric curve and compute the length of a parametric curve.

G. INSTRUCTIONAL METHODS AND ACTIVITIES

Weekly Quizzes and Homework: Homework will be assigned each week and is due the next week. You will be given in-class quizzes which assume your having completed and mastered the homework.

Attendance: Attendance for this course 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 last ten minutes of class and homework is due at the beginning of class)
H. MAJOR COURSE REQUIREMENTS AND GRADING

Note: Blackboard does not average with these percentages.

<table>
<thead>
<tr>
<th>ACTIVITY</th>
<th>% of FINAL GRADE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Midterm 1</td>
<td>15%</td>
</tr>
<tr>
<td>Midterm 2</td>
<td>15%</td>
</tr>
<tr>
<td>Midterm 3</td>
<td>15%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>25%</td>
</tr>
<tr>
<td>Quizzes</td>
<td>5%</td>
</tr>
<tr>
<td>Labs</td>
<td>20%</td>
</tr>
<tr>
<td>Homework</td>
<td>5%</td>
</tr>
</tbody>
</table>

I. COURSE CONTENT/SCHEDULE

Important dates:
August 26       Classes Begin
September 2     Labor Day
September 3     Last Day to Late Register
September 18    Midterm 1
October 16      Midterm 2
November 8      Last Day to Drop
November 26     Reading Day-No Class
November 27     Thanksgiving Holiday
November 28-29  Midterm 3
December 5      Last Day of Classes
December 11     Final Exam 7:15-9:45 pm

Tentative Schedule:
Week 1 starting Aug. 26   Syllabus, Cal. 1 Review, and 5.5
Week 2 starting Sep. 2   6.1 and 6.2
Week 3 starting Sep. 9   6.3 and 6.5
Week 4 starting Sep. 16  Review and Test
Week 5 starting Sep. 23  7.1 and 7.2
Week 6 starting Sep. 30  7.3, 7.4, and 7.5
Week 7 starting Oct. 7   7.8, 8.1, and 8.2
Week 8 starting Oct. 14  Review, and Test
Week 9 starting Oct. 21  11.1, 11.2, and 11.3
Week 10 starting Oct. 28 11.4, 11.5, and 11.6
Week 11 starting Nov. 4  11.7 and 11.8
Week 12 starting Nov. 11 11.9 and 11.10
Week 13 starting Nov. 18 Review and Thanksgiving
Week 14 starting Nov. 25 Test, 10.1, and 10.2
Week 15 starting Dec. 2  Review
Week 16 starting Dec. 9  Final exam
Note: Changes in this course schedule may be necessary and will be announced to the class by the Instructor. The assignments and exams shown are directly related to the Student Learning Outcomes described in Section F.

J. COURSE POLICIES

Attendance/Tardiness
Attendance for this course is required.

Late Work and Make-up Exams
Late work is not accepted unless previously approved. In the event of an excused absence for an exam, it is the student’s responsibility to arrange for a time to make up the exam as soon as possible.

Extra Credit
Extra credit will be given on some assignments for completing advanced problems, but there will be no extra credit assignments given to students on an individual basis to improve a grade.

Cell Phone Use
Cell phone use is not allowed during class.

Laptop Use
Laptop or tablet use is not allowed during class.

Food in Class
Food is not allowed in the classroom.

Missed Exam
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.

Participation
Participation in class discussion is important, and students that actively participate generally gain a better understanding of the material.

K. COLLEGE AND UNIVERSITY POLICIES

- Academic Honesty:
  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, forgery, or plagiarism. (Plagiarism is the presentation of the work of another as one’s own work.) For the complete statement, see
Texas A&M University-Corpus Christi

http://catalog.tamucc.edu/content.php?catoid=10&navoid=313%23

Academic_Integrity#Academic_Honesty

• 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 instructor’s 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.

• Statement of Civility
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.

• Deadline for Dropping a Course with a Grade of W (University)
I hope that you never find it necessary to drop this or any other class. However, events can sometimes occur that make dropping a course necessary or wise. Please consult with your academic advisor, the Financial Aid Office, and me, before you decide to drop this course. 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. Please consult the Academic Calendar (http://www.tamucc.edu/academics/calendar/) for the last day to drop a course.

• Grade Appeals (College of Science and Engineering)
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 at

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 school, the Office of the College of Science and Engineering Dean, or the Office of the Provost.

- **Disability Services**
  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 (361) 825-5816 or visit Disability Services in Corpus Christi Hall 116.

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.

- **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.

L. **OTHER INFORMATION**

**Academic Advising**

The College of Science & Engineering requires that students meet with an Academic Advisor as soon as they are ready to declare a major. The Academic Advisor will set up a degree plan, which must be signed by the student, a faculty mentor, and the department chair. Meetings are by appointment only; advisors do not take walk-ins. Please call or
stop by the Advising Center to check availability and schedule an appointment. The College’s Academic Advising Center is located in Center for Instruction 350 or can be reached at (361) 825-3928.

GENERAL DISCLAIMER

I reserve the right to modify the information, schedule, assignments, deadlines, and course policies in this syllabus if and when necessary. I will announce such changes in a timely manner during regularly scheduled lecture periods.