

SYLLABUS
MATH 161-02
Calculus II
Fall 2013

Instructor:

Dr. Menassie Ephrem
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Office Hours:

Wall 124G, 349-2436
MW 2:00–3:50, Th 12:00 – 1:50,
Fr 2:00 – 2:50 & by appointment

Textbook: *Calculus–Early Transcendentals*, seventh edition by James Stewart.

Prerequisite: Math 160 with a grade of ‘C’ or above.

Grade Guidelines:

- 1: Homework/Quizzes: 15%
- 2: Four Tests: 60%
- 3: Cumulative Final Exam: 25%

Exam dates are subject to change. Make-up exams will be made solely at my discretion. If you know ahead of time that you must miss an exam, you must let me know at least two class periods in advance. If you miss an exam due to some unexpected reason and fail to let me know in advance either via email, in person, or by phone, then you will not be allowed to make up the exam.

Grade Scale:

A: 90–100	B+: 86–89	B: 80–85	C+: 76–79
C: 70–75	D+: 66–69	D: 60–65	F: below 60

Course Objectives:

Applications of integration, techniques of integration, sequences and series, Taylor Polynomials, parametric equations, and polar coordinates.

Attendance Policy:

Attendance will be taken for every class, and absences will be officially reported with both the midterm and final grades.

Students with Disabilities:

Any student with a documented disability needing academic adjustments or accommodations is requested to speak with me during the first week of class. All discussions will remain confidential.

Homework and Quizzes: Homework problems can be found on the suggested exercise list. Mathematical skills are gained by working problems. This makes completing the homework an essential part of successfully completing this course. Homework will not be collected. Instead, regularly scheduled quizzes will be given based on the homework.

Calculators:

Calculators and cell phones are not allowed on quizzes, tests or the final exam.

Statement of Student Conduct:

Coastal Carolina University is an academic community that expects the highest standards of honesty, integrity and personal responsibility. Members of this community are accountable for their actions and reporting the inappropriate action of others and are committed to creating an atmosphere of mutual respect and trust.

Important Dates:

Monday, September 2	Labor Day Holiday
Thursday, September 12	Test 1
Friday, October 4	Test 2
Friday October 18	Student Holiday
Thursday October 24	Last day to drop with a grade of "W"
Thursday October 31	Test 3
Thursday, November 21	Test 4
Week of Monday, November 25	Thanksgiving Break
Tuesday, December 10 8:30-10:30	Final Exam, Room TBA

Student Learning Outcomes:

By the end of the semester, the successful student in Math 161 will have obtained facility in solving a variety of problems involving integrals, infinite series, and vectors. More specifically, students will be able to:

1. Use definite integrals in applications;
2. Evaluate integrals using a variety of techniques;
3. Evaluate convergent improper integrals;
4. Find limits of convergent infinite sequences;
5. Determine the convergence or divergence of infinite series;
6. Determine the radius of convergence of a power series;
7. Represent functions as power series;
8. Represent curves with parametric equations;
9. Apply Calculus to curves represented by parametric equations;
9. Apply Calculus to curves represented by polar equations;
10. Identify conic sections;

The course syllabus provides a general plan for the course; deviations may be necessary.

Math 161 Suggested Exercises

Section	Exercises
5.4	1-12 all, 15, 17, 21-43 odd
5.5	1-18 all, 53-69 odd
7.1	1-30 all
7.2	1-12 all, 17-28 all
7.3	1-16 all, 21-28 all
7.4	1-26 all
7.8	5-39 odd
Test 1	
6.1	1-29 all
6.2	1-30 all
6.3	3-20 all
6.4	1-4 all, 13-24 all
6.5	1-10 all, 13, 14, 15, 17
8.1	3-13 all, 14-18 all
11.1	3-18 all, 23-38 all
Test 2	
11.2	3-8 all, 15-41 odd, 51-63 odd, 87
11.3	3-25 odd, 9-25 odd
11.4	1-26 all
11.5	1-18 all
11.6	1-23 all, 35
11.8	1-18 all
11.9	3-9 all, 13, 15, 17, 25, 27, 29, 31
Test 3	
11.10	5-9 odd, 13-15 all, 29, 31, 33
10.1	5-16 all, 19, 20, 21
10.2	1-8 all, 11-20 all, 29, 30, 41-44 all
10.3	1-26 all
10.4	1-10 all, 37-40 all, 45-48 all
10.5	1-18 all, 31-41 all
Test 4	