

Math 261 - Section 5 - Unified Calculus and Analytic Geometry I, Spring 2017
Meeting Times: MWF 9:00 - 9:50 am, Farley 125

Instructor: Stephan Roberts Office: Hume 211
Office Hours: M/W 10:00am-10:50 am Email: scrober2@olemiss.edu

Materials

1. *Calculus Early Transcendentals w/ binder + MyMathLab by William Briggs / Lyle Cochran; 2 nd ed, ISBN: 9781323110935*
2. *Mathematica*, **do not purchase:** available on the computers in the Weir Hall Computer Lab or install on your computer using the university site license; installation instructions at

<https://goo.gl/x7c4hx>

Course Content and Goals

This course covers differentiation and its applications. We will cover Chapters 2, 3, and 4. The content includes, but is not limited to, limits and rates of change, continuity, derivatives, derivative rules, higher derivatives, implicit differentiation, and applications of differentiation. Our goals are to enable students to understand the concepts and rules of differentiation, learn different techniques for finding derivatives, and develop problem solving skills. We expect students to apply concepts and theories learned in class to solve application problems that include optimization and curve sketching. Math 261 will prepare students for higher level calculus/other courses and enhance critical thinking and analytical reasoning abilities.

Tests, Quizzes, Homework

1. There will be four major tests during the semester. Each test will be worth 100 points. The test questions will be similar in format to the examples in class and the homework problems. The lowest test grade will be replaced by the final exam percentage, if it is higher.
2. Online homework (MyMathLab), written homework, and Mathematica worksheets will be given throughout the semester. They will collectively be worth 100 points. Online homework must be submitted by 11:59 pm on the due date to get full credit. Late online assignments may be turned in until 11:59 pm on Friday, May 5th, 2017 for half credit.

See handout for registration instructions for MyMathLab

3. The final examination is comprehensive and will be worth 200 points.

Very Important

1. If a test is missed for ANY reason, a grade of 0 will be given. There will be absolutely NO make up tests given for ANY reason.
2. The lowest of the four major test grades will be replaced by the exam percentage, if it is higher. Please note that the homework grade cannot be replaced.
3. Any student who will miss one of the four tests because of an official University function must reschedule and take this test at a time BEFORE the test is scheduled to be given. NO OTHER rescheduling will be allowed.
4. An "I" grade will not be given without the permission of the Department of Mathematics.
5. Students must show all work for each test question and arrive at a correct answer.
6. Every student must take the final exam at the time scheduled. The only exceptions are those students affected by # 3 above. **The final exam for Math 261 - Section 5 is at 8:00 am on Wednesday, May 10.**

Final Grade

The cumulative total for the course is 700 points - tests: 400, homework//Mathematica: 100, final exam: 200.

Grade	Percentage Necessary
A	93%
A-	90%
B+	87%
B	83%
B-	80%
C+	77%
C	70%
C-	68%
D	60%
F	below 60%

NOTE: A grade of C or better in Math 261 is required in order to take Math 262.

Attendance Policy

1. Students are allowed 5 absences. Ten points are deducted from the final point total for each absence above the limit. It is the students responsibility to make sure his/her attendance record is correct.
2. Attendance fraud is a form of academic dishonesty. Students engaging in fraud will fail the class and be reported to the university for further disciplinary action. If a student must leave class after signing in, it is the responsibility of the student to communicate with the instructor before class begins.
3. Random attendance checks will be made in the form of role call at some point in class. If a student has been scanned into class using his or her student identification card but is not present for random role call, then that student will be found to have fraudulently attended class.
4. Electronic devices such as cellphones and laptops may not be used during class. Any student using such a device for any purpose will be counted absent.

Calculators and Electronic Devices

Your brain is a sufficient calculator in Math 261. Electronic devices such as calculators and cellphones are prohibited on tests, quizzes, and the final exam. Use of such devices while taking a test, quiz, or final exam will be considered academic dishonesty and appropriate action will be taken.

Cheating

The following statement is the policy of the Department of Mathematics regarding cheating:

Offenses: Cheating on any exam, quiz, homework, work to be completed in class; the use of calculators of any kind during tests or quizzes; theft or attempted theft of exam questions; use of prohibited technology; or possession of exam questions prior to the time for examination; shall all be offenses subject to appropriate penalties.

Penalties: The penalty for commission of any offense set out above is failure in the course and, subject to the approval of the Chancellor, dismissal or suspension from the university.

Withdrawal Deadline for Spring 2017 Semester - Friday, March 3

After the course withdrawal deadline, a student may withdraw from a course only in cases of extreme and unavoidable emergencies as determined by the academic dean. Withdrawing from a course after the deadline will not be permitted because of dissatisfaction over an expected grade or because the student has changed his or her major. After the course withdrawal deadline, courses dropped will be recorded on University records and the W grade will be recorded if the student is not failing the course at the time of withdrawal; otherwise, the grade recorded will be F.

Academic Needs

It is the responsibility of any student with a disability who requests a reasonable accommodation to contact the Office of Student Disability Services (915-7128). Contact will then be made by that office through the student to the instructor of this class. The instructor will then be happy to work with the student so that a reasonable accommodation of any disability can be made.

Tentative Test Dates and Suggested Practice Problems

Remember: The answers to odd numbered questions are in the back of the book!!

TEST 1: (Tentative Date: Friday, February 17)

Section	Problems
2.2	7-10; 21-24
2.3	9-36; 39-42, 45-47, 68, 69, 77-79
2.4	8-12; 17-38
2.5	9,10,12,15-34,52,53,57
2.6	9-26; 41-46
3.1	9-36, 49-52,57-60

TEST 2: (Tentative Date: Friday, March 10)

Section	Problems
3.3	7-24, 35, 36, 39-46, 50, 52
3.4	8, 9, 13, 14, 19, 21, 26, 27, 33-36, 43-45
3.5	17-22, 62, 63, 66, 67
3.6	11-17
3.7	7-25, 27-29, 31-33, 35, 36, 41-44, 48, 50, 79, 80

TEST 3: (Tentative Date: Wednesday, April 5)

Section	Problems
3.8	5-30, 37-39
3.9	9-30, 77-82
3.10	7-13, 15, 16, 18, 22, 25, 26, 31, 32
3.11	5-13
4.7	13-21, 26, 35, 36

TEST 4: (Tentative Date: Friday, April 28)

Section	Problems
4.1	23-34, 37-42, 56, 61
4.2	17-24, 31, 34, 39, 40,57-59
4.3	9-20
4.4	12, 13, 24, 25, 30a
4.6	7-13, 17-24
4.9	11-15, 39-48

Final Exam (8:00 am on Wednesday, May 10)

Section	Problems
All previous sections	previous problems