

**Math 261 – Unified Calculus and Analytic Geometry I**  
**Syllabus – First Summer 2009**

**INSTRUCTOR:** Brian Zimmerman  
**OFFICE:** Hume 322

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**OFFICE HOURS:** MTWTh 12:00 – 1:00 p.m., or by appointment

**Course contents 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.

**TEXT:** Thomas' Calculus, 11th edition, Volume 1 – Custom Edition for the University of Mississippi **Mathematica (do not purchase)** – available on the computers in the Weir Hall Computer Lab or install on your computer using the university site license; download the installer-instructions at <http://www.olemiss.edu/depts/mathematics/>

- TESTS:**
1. There will be four major tests during the semester. Each test will count 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.
  2. The final examination is comprehensive and will count 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. Please note that the homework/quiz 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. Any student having three or more final examinations scheduled for the same day will arrange with the instructor to take the 12 noon examination or the 7:30 p.m. examination on some other mutually satisfactory date.
7. Every student must take the final exam at the time scheduled. The only exceptions are those students affected by # 3 or # 6 above.

**FINAL GRADE:** The cumulative point total for the course is 600 points – tests: 400, final exam: 200. The following point scale will be used to determine your final grade:

<b>Grade</b>	<b>Points Necessary for Grade</b>
A	540 = 90% of 600
B	480 = 80% of 600
C	420 = 70% of 600
D	360 = 60% of 600
F	Below 360

**ATTENDANCE POLICY** For classes that meet five days a week, students are allowed (3) absences. Ten points are deducted from the final point total for each absence above the limit. It is the student's responsibility to make sure his/her attendance record is correct.

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

**CALCULATORS:** An inexpensive scientific calculator is sufficient in Math 261. Graphing calculators and cell phones calculators are prohibited.

**ELECTRONIC DEVICES:** All cellular phones, pagers, and other electronic equipment should be turned off during the class period.

**Cheating:** The following statement is the policy of the Department of Mathematics in Math 261 regarding cheating:

**Offenses:** Cheating on any exam or quiz, theft or attempted theft of exam questions, possession of exam questions prior to the time for examination, or the use of an illegal calculator on tests or quizzes 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 2009 FIRST SUMMER SESSION: Monday, June 8.**

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. After the course withdrawal deadline, a student may drop a course only in cases of extreme and unavoidable emergency as determined by the academic dean; dropping a course after the deadline will not be permitted because of dissatisfaction over an expected grade or because the student is changing his/her major.

**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 work with the student so that a reasonable accommodation of any disability can be made.

**SPECIAL DATES:**

Classes begin: Tuesday, May 26

Withdrawal Deadline: Monday, June 8

Classes end: Friday, June 19

Final Exams: Monday, June 22

**TENTATIVE TEST DATES AND HOMEWORK ASSIGNMENTS FOR MATH 261**

**TEST 1: Monday, June 1**

Section 2.1: 1-4; 11-34  
Section 2.2: 1-36; 43-52  
Section 2.4: 1-4; 7-18; 21-42; 47-61  
Section 2.5: 1-24; 39-42  
Section 2.6: 1-10; 11-28; 35-40  
Section 2.7: 5-22; 27, 28

**TEST 2: Friday, June 5**

Section 3.1: 1-6; 19, 20; 39-44  
Section 3.2: 1-28; 39, 40, 43, 44, 45, 46  
Section 3.3: 1-10; 13, 15, 25  
Section 3.4: 1-26; 31-36; 39-44  
Section 3.5: 9-42; 87-94

**TEST 3: Thursday, June 11**

Section 3.6: 1-36; 45, 59  
Section 3.7: 11, 15, 17, 21, 27, 29  
Section 3.8: 1-4; 11-14; 19-36  
Section 4.1: 7-28; 31-43  
Section 4.2: 1-4; 23-42

**TEST 4: Thursday, June 18**

Section 4.3: 1-36  
Section 4.4: 1-36  
Section 4.5: 1, 5, 6, 9, 13, 27, 28, 29, 31  
Section 4.6: 1-26  
Section 4.8: 1-49; 67-76

**FINAL EXAM: Monday, June 22**

Comprehensive, covering all sections