Math 262-02: Unified Calculus and Analytic Geometry II
Syllabus – Spring 2016

INSTRUCTOR: Marlow Dorrough E-MAIL ADDRESS: cmdorrou@olemiss.edu
OFFICE: Hume 305A OFFICE HOURS: 10:00-11:00 Mon-Fri or by appointment

Course contents and goals: Students who successfully complete Math 262 should be able to determine an antiderivative for polynomial, trigonometric, exponential, logarithmic, rational, and radical functions using a variety of methods. Students should also be able to write and evaluate definite integrals that represent plane area, volume, and arc length.

TEXT and SOFTWARE:
2. Mathematica (do not purchase) – available on the computers in Hume & Weir Hall or install on your computer using the university site license; installation instructions at https://my.olemiss.edu/irj/portal?NavigationTarget=navurl://437be7228f011319fc592867c0866c2f&role=Student&workset=Technology

ASSIGNMENTS: Paper homework, Mathematica worksheets, and in-class quizzes will be given throughout the semester. Each will count 10 points. The 10 best will total as a 100-point grade.

TESTS:
1. There will be six major tests during the semester. Each test will count 50 points. The test questions will be similar in format to the examples in class, the suggested textbook exercises, and the homework/quiz problems.
2. The two lowest test grades will be replaced by the final exam percentage (if it is higher). Please note that the homework/quiz grade cannot be replaced.
3. 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.
4. Any student who will miss one of the six tests because of an official University function must reschedule and take this test BEFORE the test is scheduled to be given. NO OTHER rescheduling will be allowed.
5. Students must show all work for each test question and arrive at a correct answer.
6. The final examination is comprehensive and will count 200 points.
7. Any student having three or more final examinations scheduled for the same day will arrange with the instructor to take the noon or the 7:30 p.m. examination on some other mutually satisfactory date.
8. Every student must take the final exam at the time scheduled. The only exceptions are those students affected by # 4 or # 7 above. The final exam for Math 262-02 is at 8:00 on Wednesday, May 11.

FINAL GRADE: The cumulative point total for the course is 600 points – tests: 300, homework/quiz/MM: 100, final exam: 200. The following scale will be used to determine your final grade:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
<th>Grade</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>93%</td>
<td>C+</td>
<td>77%</td>
</tr>
<tr>
<td>A’</td>
<td>90%</td>
<td>C</td>
<td>70%</td>
</tr>
<tr>
<td>B+</td>
<td>87%</td>
<td>D</td>
<td>60%</td>
</tr>
<tr>
<td>B</td>
<td>83%</td>
<td>F</td>
<td>below 60%</td>
</tr>
<tr>
<td>B’</td>
<td>80%</td>
<td></td>
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</tbody>
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ATTENDANCE POLICY Students are allowed (5) 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. Note that students who do not attend class within the first two weeks of the semester may be dropped from the roll.

CALCULATORS & ELECTRONIC DEVICES: Your brain is a sufficient calculator in Math 262. Electronic calculators, cell phones, and ipods are prohibited on tests and quizzes. All electronic equipment should be turned off during the class period, during movies, in churches, bookstores, restaurants, elevators, grocery stores, and especially while operating a motor vehicle.
SPECIAL NOTE: A grade of C or better in Math 262 is required in order to take Math 263.

Cheating: The following statement is the policy of the Department of Mathematics in Math 262 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 2016 SPRING SEMESTER: Friday, March 4. 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.

TUTORING: The Math Department offers free tutoring for calculus in Hume 326 on Monday, Tuesday, and Wednesday from 2:30 to 6:30 pm.

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.

TENTATIVE TEST DATES AND SUGGESTED PRACTICE EXERCISES FOR MATH 262-02

**TEST 1 (Mon, Feb 8)**  
Section 5.1: 17, 19, 20, 23, 24 (right Riemann sums only)  
Section 5.2: 21-24, 29, 33-40, 47-51  
Section 5.3: 11, 12, 23-49, 61-66, 89, 91, 93, 100-102

**TEST 2 (Wed, Feb 24)**  
Section 5.5: 17-30, 32-35, 39-46, 48-52, 62-64, 67-71  
Section 6.1: 7-20, 27-34

**TEST 3 (Wed, Mar 9)**  
Section 6.2: 5-7, 14, 15, 17, 20, 23, 30 (evaluate both ways)  
Section 6.3: 17-19, 23-28, 30, 35, 36, 45, 46  
Section 6.4: 5-9, 12, 15-18, 22  
Section 6.5: 3-9, 11

**TEST 4 (Fri, Apr 1)**  
Section 6.8: 13-17, 21-23  
Section 7.2: 7-12 (note choices on #11), 14-16, 19, 31-35

**TEST 5 (Mon, Apr 18)**  
Section 7.3: 9-11, 14, 16, 17, 25, 37, 41, 44  
Section 7.4: 7, 8, 10-13 (let $x = \cos$ on #12), 18, 20, 24, 25, 27, 28, 30, 31, 40, 47-49, 52, 53, 58, 59, 64  
Section 7.5: 13-17, 19, 23, 26, 48, 63, 65, 66, 70, 76-78, 80

**TEST 6 (Fri, Apr 29)**  
Section 7.8: 5-7, 9-11, 14, 16, 27, 35, 37, 41, 44, 45  
Section 7.9: 21-28, 31, 32, 36, 37, 56, 58

**FINAL EXAM (8:00 on Wednesday, May 11)**  
Comprehensive.