Math 261-02  Unified Calculus and Analytic Geometry I  Fall 2015  Syllabus

INSTRUCTOR: Mr. James Henegan  EMAIL ADDRESS: jhenegan@olemiss.edu
OFFICE: Hume 228  OFFICE HOURS: 1:00-3:00 Wednesdays, or by appointment
CLASS TIME: 8:00A – 8:50A MWF in Carrier 211  TUTORING HOURS: 4:30 - 5:30 Wednesdays in Hume 326

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 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 the following site: (note: you may have to sign into the MyOleMiss portal) (https://my.olemiss.edu/irj/portal?NavigationTarget=navurl://437be7228f011319fc592867c0866c2f&role=Student&workset=Technology)

ASSIGNMENTS:  1. Online homework, Mathematica worksheets, and quizzes will be given throughout the semester. These will total as a 100-point grade. Use Course ID: henegano1524 on the MyMathLab website to enroll in my grade book. See the "MyMathLab Registration Handout" on Blackboard for more information.
2. Online homework assignments may be done as many times as needed before the due date, with only the best score counting toward the student’s grade.
3. Online homework must be submitted by 11:59 pm on the due date to get full credit. Any late online homework assignments may be submitted by 11:59 pm on Sunday, December 6 for half-credit.
4. When working an assignment after the due date, only work problems that you have previously gotten wrong OR not attempted. Working a problem you got correct prior to the due date may actually lower your score.

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.
2. The lowest test grade 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 must miss one of the four tests or the final exam because of an official University function must reschedule and take this test/exam at a time BEFORE the test is scheduled to be given. NO OTHER rescheduling will be allowed.
5. For each test question, a student must show all work and arrive at a correct answer in order to receive full credit for that question.
6. The final examination is comprehensive and will count 200 points.
7. Every student must take the final exam at the time scheduled. The final exam for this class is at 8:00 a.m. on Monday, December 7. (The only exception to this was mentioned in #4.)

FINAL GRADE: The cumulative point total for the course is 700 points – tests: 400, homework/quiz: 100, final exam: 200. The following point scale will be used to determine your final grade:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Points Necessary for Grade</th>
<th>Grade</th>
<th>Points Necessary for Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>648-700 = 93 – 100%</td>
<td>C*</td>
<td>535-555 = 77 – 79%</td>
</tr>
<tr>
<td>A'</td>
<td>626-647 = 90 – 92%</td>
<td>C</td>
<td>486-534 = 70 – 76%</td>
</tr>
<tr>
<td>B</td>
<td>605-625 = 87 – 89%</td>
<td>D</td>
<td>416-485 = 60 – 69%</td>
</tr>
<tr>
<td>B'</td>
<td>577-604 = 83 – 86%</td>
<td>F</td>
<td>below 416</td>
</tr>
<tr>
<td>B''</td>
<td>556-576 = 80 – 82%</td>
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</tbody>
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NOTE: An "I" grade will not be given without the permission of the Department of Mathematics.

ATTENDANCE POLICY  Over the course of the semester, students are allowed five (5) absences without penalty. Ten points are deducted from the final point total (i.e., from the 700 point total) for each absence above the limit. It is the student’s responsibility to make sure his/her attendance record is correct.
Students who do not attend class within the first two weeks of the semester may be dropped from the roll.

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

CALCULATORS AND ELECTRONIC DEVICES

- Electronic calculators, cell phones, and ipods are prohibited on tests. Use of such equipment will be considered cheating.
- Cell phones should be silenced and put away for class meetings.
- Usage of a silenced electronic device (such as a laptop or a tablet) to take notes in class is allowed. However, any student who uses such an electronic device should be courteous of others in the classroom. In particular, if the usage of such a device by a student proves to be a distraction to others in the classroom, then the instructor will ask the student to discontinue the usage of the device.

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 electronic device (including cell phones) 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 (without possibility of academic forgiveness) and, subject to the approval of the Chancellor, dismissal or suspension from the University.

WITHDRAWAL DEADLINE FOR FALL 2015 SEMESTER: Monday, October 5

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.

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

TENTATIVE TEST DATES AND SUGGESTED PRACTICE PROBLEMS FOR MATH 261

TEST 1 (Fri, Sept. 11)

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

TEST 2 (Fri, Oct. 2)

Section 3.1: 9-36, 49-52, 57-60
Section 3.3: 7-24, 35, 36, 39-46, 50, 52
Section 3.4: 8, 9, 13, 14, 19, 21, 26, 27, 33-36, 43-45
Section 3.5: 17-22, 62, 63, 66, 67 (Section 1.4 for trig review)
Section 3.6: 11-17
Section 3.7: 7-25, 27-29, 31-33, 35, 36, 41-44, 48, 50, 79, 80

TEST 3 (Fri, Oct 23)

Section 3.8: 5-30, 37-39
Section 3.9: 9-30, 77-82 (Section 1.3 for exp & log review)
Section 3.10: 7-13, 15, 16, 18, 22, 25, 26, 31, 32
Section 3.11: 5-13
Section 4.7: 13-21, 26, 35, 36

TEST 4 (Wed, Nov 18)

Section 4.1: 23-34, 37-42, 56, 61
Section 4.2: 17-24, 31, 34, 39, 40, 57-59
Section 4.3: 9-20 (also slant asymptotes from Section 2.5: 35-40)
Section 4.4: 12, 13, 24, 25, 30a
Section 4.9: 11-15, 23-26, 37-41, 47-49, 67-73

FINAL EXAM (8:00 a.m, Monday, Dec 7 in Carrier 211) Comprehensive.
PEARSON CUSTOMER SUPPORT: Problems involving the MyMathLab software should be directed to their technical support department.

- The Pearson Customer Support Office is open Monday – Friday from 11 am until 7 pm (central time)
- Students may call 1-800-677-6337 to receive assistance with the software.
- Help can be found 24 hours a day online at http://247pearsonedcusthelp.com/.
- It is highly recommended that you do not use Safari as your internet browser for this software.