LECTURER: Dr. Lanzhen Song
EMAIL ADDRESS: lsong@olemiss.edu
OFFICE: Hume 304
OFFICE HOURS: 2:00-3:00pm MW, or by appointment
CLASS TIME: 10:00 – 10:50 MWF in Hume 113

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 https://my.olemiss.edu/irj/portal?NavigationTarget=navurl://437be7228f011319fc592867c592867c0866c2f&role=Student&workset=Technology

TESTS and ASSIGNMENTS:
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. (1) 20 homework sets counting a total of 100 points to the Final total. Please go to www.mymathlab.com, MyMathLab to do your homework. Please read the instruction on the last page of this syllabus.
   (2) Four Quizzes will be given throughout the semester. They will count total to 20 points (Most questions will be similar to the home work questions).
   (3) Two Mathematica worksheets will count 20 points into Final total.
3. The Final examination is comprehensive and will count 160 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 can be replaced by the Final 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 circle at your final 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. The Final Exam for Math 261-04 is at 8:00AM on Friday, Dec. 11

FINAL GRADE: The cumulative point total for the course is 700 points – tests: 400, homework/quiz: 140, final exam: 160. The following point scale will be used to determine your final grade:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Points Necessary for Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>648-700 = 93 – 100%</td>
</tr>
<tr>
<td>A'</td>
<td>626-647 = 90 – 92%</td>
</tr>
<tr>
<td>B'</td>
<td>605-625 = 87 – 89%</td>
</tr>
<tr>
<td>B</td>
<td>577-604 = 83 – 86%</td>
</tr>
<tr>
<td>B'</td>
<td>556-576 = 80 – 82%</td>
</tr>
<tr>
<td>C</td>
<td>535-555 = 77 – 79%</td>
</tr>
<tr>
<td>C</td>
<td>486-534 = 70 – 76%</td>
</tr>
<tr>
<td>D</td>
<td>416-485 = 60 – 69%</td>
</tr>
<tr>
<td>F</td>
<td>below 416</td>
</tr>
</tbody>
</table>

NOTE: An "I" grade will not be given without the permission of the Department of Mathematics.

ATTENDANCE POLICY: It is essential to attend every class in order to do well in mathematics. Our classrooms are equipped with automated attendance systems that allow students to “sign” themselves into class by swiping their student identification cards. Please consult this webpage for more information about the system: http://technews.blog.olemiss.edu/2013/01/16/new-attendance-tracking-
scanners-for-um-classrooms. Each student is responsible for “signing” into the class every day as an indication of class attendance and participation. As you “sign” in, pay attention and confirm that your identification has been successfully recorded. Use your own student identification to “sign” in. Do NOT “sign” in for your friends or have a classmate “sign” in for you. Attendance (and identity) fraud is a form of academic dishonesty (and it is illegal); students engaging in fraud will fail the class and will be reported to the university for further disciplinary action. If you must leave class after signing in, please alert me before class begins. If you sign in and leave, you will fail the class and you will be cited for academic fraud. You may scan from 10 minutes prior to class until 20 minutes after class begins. It is your responsibility to see me immediately after class if you are more than 20 minutes late.

For classes that meet three 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. **Note that 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**
- Your brain is a sufficient calculator in Math 261.
- Electronic calculators, cell phones, and ipods are prohibited on tests. Use of such equipment will be considered cheating.
- All electronic equipment should be turned off during class unless given permission by the instructor. This includes ipods, laptops, ipads, etc. Cell phones should be silenced and put away. The instructor may dismiss you from class if you are observed using any such electronics.

**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 (Friday, Sept 18)**
- 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 (Friday, Oct 9)**
- 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 3.7: 7-25, 27-29, 31-33, 35, 36, 41-44, 48, 50, 79, 80

**TEST 3 (Friday, Oct 30)**
- 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 (Friday, Nov 20)
Section 4.1: 23-34, 37-42, 56, 61
Section 4.2: 17-24, 31, 34, 39, 40, 57-59
Section 4.4: 12, 13, 24, 25, 30a
Section 4.6: 7-9; 11, 12; 17-24
Section 4.9: 11-15, 23-26, 37-41, 47-49, 67-73

FINAL EXAM (8:00 am on Friday, Dec 11) 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://247pearsoned.custhelp.com/.
- It is highly recommended that you do not use Safari as your internet browser for this software.

Pearson's MyLab & Mastering

MyMathLab® Student Registration Instructions

To register for Math261-04Fall2015(Song):

2. Under Register, select Student.
3. Confirm you have the information needed, then select OK! Register now.
4. Enter your instructor’s course ID: song57706, and Continue.
5. Enter your existing Pearson account username and password to Sign In.
   - You have an account if you have used a Pearson product, for example: MyMathLab, MyITLab, MyPsychLab, MySpanishLab or Mastering, such as MasteringBiology.
   - If you don’t have an account, select Create and complete the required fields.
6. Select an access option.
   - Use the access code that came with your textbook or that you purchased separately from the bookstore.
   - Buy access using a credit card or PayPal account.
   - If available, get 14 days temporary access. (The link is near the bottom of the screen.)
7. From the confirmation page, select Go To My Courses.
8. On the My Courses page, select the course tile Math261-04Fall2015(Song) to start your work.

To sign in later:

2. Select Sign In.
3. Enter your Pearson account username and password, and Sign In.
4. Select the course tile Math261-04Fall2015(Song) to start your work.
To upgrade temporary access to full access:

2. Select Sign In.
3. Enter your Pearson account username and password, and Sign In.
4. Select Upgrade access from the course tile Math261-04Fall2015(Song).
5. Enter an access code or purchase access with a credit card or PayPal account.

For a registration overview, go to www.pearsonmylabandmastering.com/students/get-registered. Scroll down to Need a little help? and select a video.