MATH 261 - Calculus I

COURSE SYLLABUS

INSTRUCTOR: Kelvin Holmes
E-MAIL ADDRESS: kmholmes@olemiss.edu
OFFICE: Hume 222
OFFICE HOURS: M-Th 11:00-12:00
After Class and by appointment

SOFTWARE/TEXT:

- 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: Mathematica Download

DESCRIPTION AND LEARNING OUTCOMES:

- 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, to learn different techniques for finding derivatives, and to 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 along with other courses and enhance critical thinking and analytical reasoning abilities.

HOMEWORK

- Online homework will be assigned for each section we cover this semester and will be a total of 100 points.
- Use course ID: holmes59494
- Online homework must be submitted by 11:59 pm on the due date to get full credit. Any late MyMathLab assignments may be submitted by 11:59 pm on Sunday, December 2nd, 2018 for half-credit.
- Homework can be repeated until 100% completion.

TESTS and PRACTICE TESTS

- There will be four major tests during the semester. Each test will count 100 points (400 points total). The test questions will be similar in format to the examples in class and the homework problems. These exams will test your ability to solve problems similar to those discussed in class. The tests will not be multiple choice.
- The lowest test grade will be replaced by the final exam percentage, if the score on the final exam is greater than the lowest test grade.
- 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. The replacement grade policy is in place to protect any student who has to miss a test due to an emergency.
- 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. NO OTHER rescheduling will be allowed.
- Each test, including the Final Exam, will have an associated Practice Test to be taken through the MyMathLab website to prepare for the in class Tests. The Practice Tests are due by the beginning of class on the associated test day (Practice Test 1 is due by the start of class on the day Test 1 is taken). Practice Tests can be taken an unlimited number of times and only the highest score is kept.
• You can only access each Practice Test once you have completed each homework assignment for that Test. It is imperative that you stay on top of your homework, and complete the homework with enough time to take the Practice Test.

• Another way to access each Practice Test is to do the quizzes within the Study Plan for the desired Test. Once you make 70% or better, you will achieve the mastery of that objective. After all objectives are completed, you will access to the Practice Test.

• Each Practice Test is worth 5 bonus points on the associated test. For example, if your highest score on Practice Test 1 is an 86%, then you will receive 4.3 bonus points (86% of the 5 available points).

FINAL EXAM

• The final exam is comprehensive and will count 200 points.

• Any student having three or more final exams scheduled for the same day will arrange with the instructor to take either the 12:00 p.m. OR the 7:30 p.m. exam on some other mutually satisfactory date.

• An Incomplete grade (grade of I) will not be given without the permission of the Department of Mathematics.

• Students must show ALL work for each test question and arrive at a correct answer.

• Every student must take the final exam at the time scheduled. The only exceptions are those students affected by an official University function.

FINAL GRADE:

• The cumulative total for the course is 700 points. 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>630 to 700</td>
</tr>
<tr>
<td>A-</td>
<td>616 to less than 630</td>
</tr>
<tr>
<td>B+</td>
<td>602 to less than 616</td>
</tr>
<tr>
<td>B</td>
<td>560 to less than 602</td>
</tr>
<tr>
<td>B-</td>
<td>546 to less than 560</td>
</tr>
<tr>
<td>C+</td>
<td>532 to less than 546</td>
</tr>
<tr>
<td>C</td>
<td>490 to less than 532</td>
</tr>
<tr>
<td>C-</td>
<td>476 to less than 490</td>
</tr>
<tr>
<td>D</td>
<td>420 to less than 476</td>
</tr>
<tr>
<td>F</td>
<td>below 420</td>
</tr>
</tbody>
</table>

ATTENDANCE POLICY:

• Students are allowed five (5) absences in a MWF section without penalty.

• Students are allowed three (3) absences in a TTh or MW section without penalty.

• Students who accumulate more absences than are allowed for their specific section will have ten (10) points deducted from their final point total FOR EACH absence above the limit for their respective section.

• Students must take the responsibility of telling the instructor in advance if they must leave early, and must discuss with the instructor immediately after class if they entered the classroom after class has begun. It is the student’s responsibility to make sure that their attendance record is correct.

• 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.
• If an emergency arises and a student must leave class after scanning in, then the student must notify the instructor within 24 hours of the end of class.

• 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.

• Cellphone use will not be allowed during class. Any student using a cellphone for any purpose in class will be counted absent – no questions asked.

CALCULATORS:

• There will be no calculators used during any test, exam, or in class assignment under ANY circumstances. Any student caught using a calculator or cell phone during a test, exam, or in class assignment will be considered cheating.

CHEATING:

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

  Offenses: Cheating on any exam or quiz, theft or attempted theft of exam questions, possession of exam questions prior to an examination, or the use of an illegal calculator on tests 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: Monday, October 1st

• After the Course Withdrawal Deadline, courses dropped will be recorded on University records and the grade of W will be recorded if the student is not failing the course at the time of withdrawal; otherwise, the grade of F will be recorded. 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.

DISABILITY ACCESS AND INCLUSION:

• The University of Mississippi is committed to the creation of inclusive learning environments for all students. If there are aspects of the instruction or design of this course that result in barriers to your full inclusion and participation, or to accurate assessment of your achievement, please contact the course instructor as soon as possible. Barriers may include, but are not necessarily limited to, timed exams and in-class assignments, difficulty with the acquisition of lecture content, inaccessible web content, and the use of non-captioned or non-transcribed video and audio files. If you are approved through SDS, you must log in to your Rebel Access portal at https://sds.olemiss.edu to request approved accommodations. If you are NOT approved through SDS, you must contact Student Disability Services at 662-915-7128 so the office can: 1. determine your eligibility for accommodations, 2. disseminate to your instructors a Faculty Notification Letter, 3. facilitate the removal of barriers, and 4. ensure you have equal access to the same opportunities for success that are available to all students.

PRACTICE PROBLEMS:

I. Test 1
   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
   Section 3.1: 9-36, 49-52, 57-60
II. Test 2
Section 3.2: 5-16
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

III. Test 3
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

IV. Test 4
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

V. Final Exam
Section 4.5: 13-34
Section 4.6: 7-14, 17-24
Section 4.9: 11-15, 39-48
All Previous Sections All Previous Problems
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/](http://247pearsoned.custhelp.com/).
- It is highly recommended that you do not use Safari as your internet browser for this software.

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**MyLab / Mastering Course Registration Instructions**

Dear Student,

Your instructor chose MyLab / Mastering to help you succeed in this course. With rich media, your eText, and much more, your course provides you with the resources you need to master even the most difficult concepts. Your course is designed to help you get a better grade!

What You Need to Enroll in your Instructor’s Online Course

A Course ID: holmes59494

- A valid email address that you check regularly
  This address will be used to confirm your registration and for other communication about the course. Your instructor may also use this email address to communicate with you.

*** If you have taken Math 261 at Ole Miss with THIS textbook, you do not have to buy a new access code!!! Follow the instructions below:

- Go to [www.pearsonmylabandmastering.com](http://www.pearsonmylabandmastering.com) and sign in.
- Click Enroll.
- Enter course id: holmes66198
- Confirm.

*** If you have NOT taken Math 261 at Ole Miss with THIS textbook, follow these instructions:

- Go to [www.pearsonmylabandmastering.com](http://www.pearsonmylabandmastering.com)
- Click Student under Register.
- Enter your Course ID and click Continue.
- Verify the course information.
- You have a Pearson account if you have used other Pearson online products.
  Enter your username and password, and click Sign In.
- If you don’t have a Pearson account, click Create an account.
- Complete your account set up by entering your name, email address, a username and password, and any other required information.
- Click Create Account. You now have a Pearson account.

- Course access – You have three choices
  - If you have already purchased an access code, click access code, enter the code and click Finish.
  - If using a credit card or PayPal, click the button for the access you want to purchase, provide payment account information and verify your order.
  - Click on Get temporary access and then confirm your choice by clicking Yes. This will give you temporary access to the course for 14 days. At that time, you will have to purchase an access code.

To Sign in to Your Course Again Later

- Return to [www.pearsonmylabandmastering.com](http://www.pearsonmylabandmastering.com)
- Click Sign In.
- Enter your Pearson account username and password and click Sign In.