MATH 261 - Calculus I Online

COURSE SYLLABUS

INSTRUCTOR: Jon-Michael Wimberly
E-MAIL ADDRESS: jwimberl@olemiss.edu
OFFICE: Hume 205
OFFICE HOURS: MW 2:30-4:30 p.m.
TTh 1:00-3:00 p.m.

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.

COMMUNICATION:
- Communication should be in person during office hours or via email. I will answer emails 8-5:30 Monday through Friday.

HOMEWORK:
- Online homework will be assigned for each section we cover this semester and will be a total of 100 points.
- Homework can be repeated until 100% completion. No homework assignments will be dropped.
- Each section we cover has two assignments associated with it. The first is a Lecture Assignment. The video assignment is your lecture for the material. Each video assignment contains Lecture Notes for the section and links to videos lectures. **You must access each part of the video assignment to score a 100% completion on that assignment in order to unlock the homework assignment for that section.** The homework assignment is graded. The video assignment is not graded.
- The video assignments will become available on the corresponding days of the Course Calendar with the exception of the Section 2.2 Video Assignment which is available immediately e.g. the Section 2.5 Video Assignment will not be available until 9/7/2016. Again, you must access each part of the video assignment, scoring a 100% completion, to unlock the graded homework assignment for the corresponding section.
- Online homework must be submitted by 11:59 pm on the due date to get full credit.
- Any late MyMathLab assignments or partially completed assignments may be submitted by 11:59 pm on **Friday, December 1st, 2017** for half-credit. If you partially complete an assignment, only work the problems that were not completed after the due date. If you re-work a problem you got correct for credit after the due date has passed, then a 50% deduction will be applied to that problem also.
- Any homework assignment can be repeated for practice after the due date. Simply choose the for practice option instead of the for credit option.
PRACTICE TESTS:

• Each test will have an associated Practice Test. The Practice Tests will be taken online through MyMathLab.
• The purpose of each Practice Test is to gauge your preparation for the high-stake, in-class Tests. As such, the Practice Tests are locked based on topic mastery. The MyMathLab software will recognize the concepts you are finding difficult and require you to practice those concepts before accessing the Practice Tests. **You must allow yourself plenty of time to prove mastery over the topics in the course before attempting the Practice Tests.**
• The purpose of the Practice Tests is to prepare you for the tests. Each Practice Test is worth 25 points for a total of 100 points in test reviews.
• You must prove proficiency to access each Practice Test. To prove proficiency, you must successfully complete 70% of each topic covered in the homework assignments or complete the Study Plan for the associated mastery topic. If you do not successfully complete the requirements for the Practice Tests, then you will not be able to access them!
• Tests Reviews will become live with each test module and will be due the night before each test.
• Test Reviews can be taken a maximum of three times with the highest score counting.

TESTS and FINAL EXAM:

• There will be four major tests during the semester.
• Each test will count 100 points and will be taken **ONLINE** through the MyMathLab portal. The test questions will be similar in format to the homework problems. Tests will be available from 12:00 a.m. on the first day of the testing window until 11:59 p.m. on the last day of the testing window. You must schedule your tests appropriately to allow enough time to complete each test. If you choose ProctorU, then the last testing appointment that can be made will be at 10:00 p.m. on the last day of the testing window.
• The tests will have a 90-minute time limit from when the test is accessed on MyMathLab. This extended time limit is to allow for any possible confusion or delay to access the test. Ideally, the test should be taken in 75 minutes.
• Each test can only be taken once. If there is a disruption in the test (loss of internet connection, loss of power, etc.), then it is the student’s responsibility to ensure the proctor contact me immediately via email or phone.
• Due to the nature of the online classroom environment, there will be very limited partial credit available on the tests. To defer this consequence of the online environment, four-function calculators are allowed on the tests. Please see the CALCULATORS section for more information.
• Each test and the final exam must be proctored. Please see the TESTING INFORMATION section below for information regarding proctored exams.
• 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 lowest of the four major test grades will be replaced by the exam percentage, if the percentage is higher than the lowest test grade. **THE HOMEWORK GRADE CANNOT BE REPLACED.**
• There will be a comprehensive final exam at the end of the semester.
• The final exam will count 200 points and will be taken **ONLINE** through the MyMathLab portal.
• The final exam will be accessible from 12:00 a.m. on Monday of Final Exam week until 5:30 p.m. Friday of Final Exam week and will last 3 hours (180 minutes). Students taking the final exam through ProctorU can schedule an appointment at any time during this window with the last appointment time being 2:30 p.m. on Friday of Final Exam Week. Students taking the final exam through DETL must make an appointment through DETL.
• The final exam will have a 180-minute time limit from when the test is accessed on MyMathLab. The final exam can be taken only once. If there is a disruption in the test (loss of internet connection, loss of power, etc.), then it is the student’s responsibility to ensure the proctor contact me immediately via email or phone.
• The same four-function calculator is allowed on the final exam.

TESTING INFORMATION:
• Each test and the final exam must be taken online with a proctor. It is the student’s responsibility to schedule the appointments for each proctored assessment. For this class, there will be two options for proctoring the exams: ProctorU and DETL.
  ProctorU is a remote proctoring service that allows you to schedule your exam time at any point during the exam window. ProctorU is more flexible than the DETL Lab, but it is a service the student is responsible for paying to use (~$25 per test, ~$30 for Final Exam). To use ProctorU, you must have a computer (not a phone or tablet) with a webcam, a whiteboard (small dry-erase board and markers), and high-speed Internet connection. Students using ProctorU will not be allowed to bring scratch paper to the test – you must use a whiteboard only.
  DETL (Distance Education Testing Lab) is a free testing center on campus in the Jackson Avenue Center, Suite F. While testing at DETL is free, there are limitations to dates and times that are available to schedule an appointment to take an exam. To schedule an appointment through DETL, please see the following website: http://www.online.olemiss.edu/testing.html

Note: DETL cannot assist you in making regional campus testing appointments. Please contact the regional testing centers directly to schedule regional campus appointments. See the contact information below:

<table>
<thead>
<tr>
<th>Region</th>
<th>Name</th>
<th>Phone Number</th>
<th>Email</th>
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</thead>
<tbody>
<tr>
<td>Desoto</td>
<td>Twyla Loftiss</td>
<td>(662) 393-1674</td>
<td><a href="mailto:twyla@olemiss.edu">twyla@olemiss.edu</a></td>
</tr>
<tr>
<td>Tupelo</td>
<td>Carrie Cannon</td>
<td>(662) 690-2017</td>
<td><a href="mailto:ckerouch@olemiss.edu">ckerouch@olemiss.edu</a></td>
</tr>
<tr>
<td>Booneville</td>
<td>Kim Gray</td>
<td>(662) 720-7781</td>
<td><a href="mailto:kstevens@olemiss.edu">kstevens@olemiss.edu</a></td>
</tr>
<tr>
<td>Grenada</td>
<td>LaTonya Pittman</td>
<td>(662) 227-2348</td>
<td><a href="mailto:lspitma@olemiss.edu">lspitma@olemiss.edu</a></td>
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Please report to the testing center at least 10 minutes before your appointment with a valid Ole Miss ID, state issued driver’s license, or a passport to take your exam. There will be no exceptions to this rule. Please contact DETL directly if there are issues or questions with forms of identification.

If you are late to your testing appointment, then you must reschedule your testing appointment or use ProctorU.

• 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. This is difficult for online classes due to the nature of the software. You will be provided scratch paper for your proctored tests. You MUST give your scratch paper to the proctor to receive any partial credit for the exam.
• Every student must take the final exam at the time scheduled. The only exceptions are those students affected by an official University function.
COPYRIGHT AND FAIR USE STATEMENT:

- This policy sets forth the privileges of and restrictions on students, faculty, staff, and other users with respect to the computing and telecommunications systems offered by the University of Mississippi (UM). This policy is designed to protect the University community from illegal or damaging actions by individuals, either knowingly or unknowingly. Inappropriate use exposes the University to risks, including virus attacks, compromise of network systems and services, and legal issues. This policy directly addresses copyright issues related to illegal downloads and peer-to-peer file sharing.

M-BOOK SUMMARY:

- The University of Mississippi is dedicated to supporting and sustaining a safe and scholarly community of learning dedicated to nurturing excellence inside and outside of the classroom. Each student has a duty to become familiar with University values and standards reflected in University policies, and each student has a duty to honor University values and standards reflected in University policies. These policies are outlined in the M Book. For a complete listing of policies, please visit the University Policy Directory.

STUDENT IDENTITIY POLICY AND PRIVACY POLICY:

- The University must abide by federal guidelines to verify the participation of online students. For all course types, including thesis, internships, labs, online courses, etc., the instructor must verify your participation based on some type of participation. This may include submission of an online assignment or other course related contact with the instructor. (However, simply logging into Blackboard will not count as an academically related activity.)
- Federal regulations, our accrediting agency (SACS) and university policies require that safeguards are used to ensure that the student who receives the academic course credit is actually the person doing the work. You will need to present your student ID before taking proctored exams and your instructor may verify your identity through live or virtual meetings, or by using an identity verification program.

FINAL GRADE:

- The cumulative total for the course is 800 points (100 Homework, 400 Tests, 100 Practice Tests, 200 Final Exam). The following point scale will be used to determine your final grade:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Points Necessary for Grade</th>
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<tbody>
<tr>
<td>A</td>
<td>720 to 800</td>
</tr>
<tr>
<td>A-</td>
<td>704 to less than 720</td>
</tr>
<tr>
<td>B+</td>
<td>688 to less than 704</td>
</tr>
<tr>
<td>B</td>
<td>640 to less than 688</td>
</tr>
<tr>
<td>B-</td>
<td>624 to less than 640</td>
</tr>
<tr>
<td>C+</td>
<td>608 to less than 624</td>
</tr>
<tr>
<td>C</td>
<td>560 to less than 608</td>
</tr>
<tr>
<td>C-</td>
<td>544 to less than 560</td>
</tr>
<tr>
<td>D</td>
<td>480 to less than 544</td>
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<tr>
<td>F</td>
<td>below 480</td>
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CALCULATORS:

• Online Calculus students are allowed a basic, four-function calculator for the tests and the final exam. The calculator allowed is the Texas Instruments 503SV Standard Function Calculator. This is the only calculator allowed for testing. The calculator can be purchased online for less than $5. A picture of the calculator can be seen to the right.

• DETL provides calculators for student use during their testing session. ProctorU does not provide calculators.

• It is the student’s responsibility to obtain the allowed calculator before the scheduled tests. Any questions regarding appropriate calculators must be handled at least 72 hours before the scheduled test.

• Graphing and Scientific Calculators **will not be allowed under any circumstances.**

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 2nd**

• 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.

ACADEMIC NEEDS:

• University policy provides for reasonable accommodations to be made for students with verified disabilities on an individualized and flexible basis as specified under Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990 (ADA). Students with disabilities who believe they may benefit from classroom or other accommodations should contact the Office of Student Disability Services for information: 234 Martindale, 662-915-7128 (Phone), 662-915-7907 (TTY Phone), sds@olemiss.edu
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 3.3: 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
   Section 4.6: 7-13, 17-24
   Section 4.9: 11-15, 39-48

V. Final Exam
   All Previous Sections  All Previous Problems