

**Math 261—5 & 10 Unified Calculus and Analytic Geometry I**  
**Syllabus – Spring 2014**

**INSTRUCTOR:** Michael Azlin  
**OFFICE:** Hume 218

**E-MAIL ADDRESS:** mwazlin@olemiss.edu  
**OFFICE HOURS:** 11:30-1:30 W/F, or by appointment

**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:** Calculus Early Transcendentals w/ binder + MyMathLab by William Briggs & Lyle Cochran; ISBN: 9781256652533 *Mathematica* (**do not purchase**) – available on the computers in the Weir Hall Computer Lab or install on your computer using the university site license; installation instructions at <http://www.mcsr.olemiss.edu/appssubpage.php?pagename=mathematica.inc>

- 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 and the homework problems. The lowest two test grades will be replaced by the final exam *percentage* if the final exam percentage is higher.
  2. Online homework assignments will be given throughout the semester that will total 80 points, quizzes will total 20 points, and there will be a minimum of three *Mathematica* assignments for 20 points.  
**Use Course ID: azlin24728 to enroll in my grade book in MyMath Lab for section 5.**  
**Use Course ID: azlin70359 to enroll in my grade book in MyMath Lab for section 10.**
  3. The final examination is comprehensive and will count 180 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 are given for ANY reason.
2. The two lowest of the six major test grades will be replaced by the final exam percentage. Please note that the homework grade cannot be replaced.
3. Any student who will miss one of the six 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 arrive at a correct answer.
6. Any student having three or more final examinations scheduled for the same day will arrange with the instructor **in advance of finals week** 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 261-05 is on Wednesday, May 7 at 8:00 am, and the final exam for Math 261-10 is on Monday, May 5 at 4:00 pm.**
8. The University final exam schedule is here: <http://www.olemiss.edu/depts/registrar/fschedule.html#spring14>.

**FINAL GRADE:** The cumulative point total for the course is 600 points – tests: 300, homework/quizzes/*Mathematica*: 120, final exam: 180. The following point scale will be used to determine your final grade:

Grade	Pct/Pts Necessary
A	93% (558)
A <sup>-</sup>	90% (540)
B <sup>+</sup>	87% (522)
B	83% (498)
B <sup>-</sup>	80% (480)

Grade	Pct/Pts Necessary
C <sup>+</sup>	77% (462)
C	70% (420)
D	60% (360)
F	Below 60% (360)

**ATTENDANCE POLICY:** For classes that meet three days a week, students are allowed (5) absences. Ten points are deducted from the cumulative point total for each absence above the limit. Attendance will be taken by scanning your student id card on one of the scanners in the classroom. Students must make sure that the screen says “Scan Successful” when they scan their id. Keep in mind that the scanner beeping does NOT give any indication on whether or not a scan was successful. Students may scan in to class beginning 15 minutes before class and no later than 5 minutes after the beginning of class. It is your responsibility to notify me *in person immediately after class* if you are more than 5 minutes late. Every two instances of tardiness will result in an absence. Failure to bring an id card will be considered a tardy. Note that a student is to scan **only** his/her id card. Attendance (and identity) fraud is a form of academic dishonesty (and it is illegal); students engaging in fraud will automatically fail the class and an academic dishonesty charge will be brought forth. 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. Students can view their absences on [my.olemiss.edu](http://my.olemiss.edu). Students can view their attendance logs at [attendance.olemiss.edu](http://attendance.olemiss.edu).

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

**CALCULATORS:** Your brain is a sufficient calculator in Math 261. Electronic calculators, cell phones, ipads, and ipods are prohibited on tests and quizzes.

**ELECTRONIC DEVICES:** All laptops, cellular phones, pagers, and other electronic equipment should be turned off in class, movies, churches, restaurants, elevators, grocery stores, and especially while operating a motor vehicle.

**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 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 2014 SPRING SEMESTER:** Tuesday, 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.

**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.

#### **SPECIAL DATES:**

Spring Break: Monday, March 10—Friday, March 14

Good Friday Holiday: Friday, April 18

Classes end: Friday, May 2

Final Exams: Monday, May 5—Friday, May 9

#### **TIPS FOR SUCCESS**

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\* Keep up! You will need to be comfortable with the material from the beginning of the course to be successful in the end.

\* Try reading the sections ahead of time to get an idea of the material before class. After class, read back over the section for understanding and work the recommended homework problems. There is a reason they are recommended!

\* Use your textbook! It has the answers for odd numbered exercises in the back. It also has a good index and references for basic formulas.

\* You can stop by anytime during my office hours or email me to set up an appointment at another time. Help will be much more effective if you know what it is that you don't understand and if you bring specific questions from lecture or the book!

\* **Math Department Tutoring:** Jackson Avenue Center Math Lab: Mon-Thu 10:00am-6:00pm, Fri 10:00am-5:00pm. You must have your student ID to enter the lab. The Brown Line of the OUT bus runs between Paris-Yates Chapel and the Jackson Avenue Center every 5 or 10 minutes from 7am to 9:15pm Monday-Friday. Those with commuter or park and ride permits can legally park at the JAC. Those with residential or frat/sorority permits will be ticketed for parking at JAC. Also, the Blue Line of the OUT bus will take

you to the JAC on a 30 minute schedule, picking up from the Student Union and a few other locations on campus. See <http://www.oxfordms.net/visitors/transit/bus-routes-a-schedules.html> for more information.

### TENTATIVE TEST DATES AND SUGGESTED PRACTICE EXERCISES FOR MATH 261

**TEST 1 (Friday, Feb 7)**

Section 2.2: 7-10; 17-20  
Section 2.3: 9-34; 37-48; 64, 65; 73-75  
Section 2.4: 8-12; 17-30  
Section 2.5: 9-26; 38, 39, 43

**TEST 2 (Friday, Feb 21)**

Section 2.6: 9-28; 35-44; 74  
Section 3.1: 11-32; 35-38; 49-52  
Section 3.2: 7-24; 29, 30; 39-46

**TEST 3 (Friday, Mar 7)**

Section 3.3: 8, 11, 12; 17-21; 23, 24; 27-41; 62, 63  
Section 3.4: 7-19; 21; 26-30; 50, 51, 54, 55 (Section 1.4: 15-22; 29-46; 49-56)  
Section 3.5: 9-19; 28, 29, 37

**TEST 4 (Friday, Mar 28)**

Section 3.6: 7-36; 56-61; 75-78  
Section 3.7: 5-14; 21-26; 33-36; 41-43; 48-53  
Section 3.8: 9-16; 26-36; 59, 60, 63, 64 (Section 1.3: 17-22; 25-30; 37-40)

**TEST 5 (Friday, Apr 11)**

Section 3.9: 1-14; 20, 22, 24, 26, 28; 29-42  
Section 3.10: 5-12; 14  
Section 4.7: 13-21; 26

**TEST 6 (Friday, Apr 25)**

Section 4.1: 11-18; 23-36; 43, 48, 50, 52, 53, 54, 68  
Section 4.2: 17-27; 30-38; 47-53; 57-59  
Section 4.4: 7-10; 18, 19, 24

**FINAL EXAM (8:00, Wednesday, May 7 section 5, and 4:00, Monday, May 5 section 10)** The final exam will be comprehensive and cover all of the above material. Also the following will be included on the final exam:

Section 4-3: 7-20  
Section 4.6: 7-9; 11, 12; 15-22  
Section 4.8: 11-15; 39-48

# MyMathLab

## Welcome Students!

**MyMathLab** is an interactive website where you can:

- Self-test & work through practice exercises with step-by-step help to improve your math skills.
- Study more efficiently with a personalized study plan and exercises that match your book.
- Get help when YOU need it. MyMathLab includes multimedia learning aids, videos, animations, and live tutorial help.

## Before You Begin:

To register for MyMathLab, you need:

- A MyMathLab student access code** (packaged with your new text, standalone at your bookstore, or available for purchase with a major credit card at [www.pearsonmylab.com](http://www.pearsonmylab.com))
- Your instructors' Course ID: azlin24728 for section 5.**
- Your instructors' Course ID: azlin24728 for section 10.**
- A valid email address**

## Student Registration:

Enter [www.pearsonmylab.com](http://www.pearsonmylab.com) in your web browser.

Under Register, click **Student**.

Enter your **Course ID** exactly as provided by your instructor and click **Continue**. *Your course information appears on the next page. If it does not look correct, contact your instructor to verify the Course ID.*

Sign in or follow the instructions to create an account. Use an email address that you check and, if possible, use that same email address for your username. Read and accept the License Agreement and Privacy Policy.

Click **Access Code**. Enter your **Access Code** in the boxes and click **Next**. *If you do not have an access code and want to pay by credit card or PayPal, select the access level you want and follow the instructions. You can get temporary access without payment for 14 days..*

Once your registration is complete, a **Confirmation** page appears. You will also receive this information by email. Make sure you print the Confirmation page as your receipt. Remember to **write down your username and password**. You are now ready to access your resources!

## Signing In:

- Go to [www.pearsonmylab.com](http://www.pearsonmylab.com) and click **Sign in**.
- Enter your **username** and **password** and click **Sign In**.
- On the left, click the name of your course.

The first time you enter your course from your own computer and anytime you use a new computer, click the **Installation Wizard** or **Browser Check** on the Announcements page. After completing the installation process and closing the wizard, you will be on your course home page and ready to explore your MyMathLab resources!

## Need help?

Contact Product Support at <http://www.mymathlab.com/student-support> for live CHAT, email, or phone support.