

M408L-INTEGRAL CALCULUS

UNIQUE NUMBERS 57470 - 57475

Fall, 2009

Instructor of Record: Jason (Jay) Mireles James

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Office Hours: Tuesday and Thursday from 2:00pm-3:00pm.

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Office Hours: Monday and Wednesday 1:30pm - 3:00pm.

Textbook: Stewart, *Calculus*, Sixth Edition.

Official Course Homepage:

<http://www.ma.utexas.edu/~jjames/M408L.Fall109/homepage.html>

Class Meetings:

- *Lectures:* Tuesdays and Thursdays from 9:30am – 11:00am (both sections), in RLM 6.104.
- *Discussion (57470):* Mondays and Wednesdays from 10:00am-11:00am, in RLM 6.126.
- *Discussion (57475):* Mondays and Wednesdays from 12:00pm -1:00pm, in RLM 6.124.

Communication: I will sometimes send group emails to the class. These are official course communications. Make sure that the university has your correct email address, and that you check your mail regularly.

The best time to meet with me is during office hours, however I am available at other times by appointment. The best way to contact me is by email.

Homework assignments will be announced in class and posted on the course website, along with their due dates. Important class documents (such as this handout) are available there as well. Information posted on the course website, including announcements, are official course communications (though important announcement postings will be accompanied by a group email).

Course Description: Integral Calculus.

M408L is one of two first-year calculus courses. It is directed at students in the natural and social sciences and at engineering students. In comparison with M408D, it covers fewer chapters of the text. However, some material is covered in greater depth, and extra time is devoted the development of skills in algebra and problem solving. This is not a course in the theory of calculus, and we will cover only as much theory as is necessary for a correct understanding of the material.

The course can be summarized as an introduction to the theory and applications of integral calculus of functions of one variable; topics include integration, the fundamental theorem of calculus, transcendental functions, sequences, and infinite series.

Problem solving and computation are stressed.

Prerequisite: M408K, or M408C with a grade of at least C.

Schedule: Here is a tentative lecture schedule, which I reserve the right to revise as the semester develops.

Week/Dates	Section
1: Aug 27	4.10 and 5.1
2: Sept 1 - Sept 3	5.2 - 5.3
3: Sept 8 - Sept 10	5.4 - 5.5 - 6.1
4: Sept 15 - Sept 17	Test 1 - 6.2
5: Sept 22 - Sept 24	7.2 - 7.4 - 7.5
6: Sep 29 - Oct 1	8.1 - 8.2 -8.3
7: Oct 6 - Oct 8	8.4 - 8.5 - 8.8
8: Oct 13 - Oct 15	15.3 - 16.1 - 16.2
9: Oct 20 - Oct 22	Test 2 - 16.2 - 16.3
10: Oct 27 - Oct 29	12.1 - 12.2
11: Nov 3 - Nov 5	12.3 -12.4 - 12.5 - 12.6
12: Nov 10 - Nov 12	12.7-12.8- 12.9
13: Nov 17 - Nov 19	12.10 - 12.12
14: Nov 24 - Nov 26	Test 3 - No Class
15: Dec 1 - Dec 3	Topics - Review

The Discussion sessions will focus on the mechanics of solving problems motivated by the lecture material and your homework. The discussion sessions will keep pace with the lectures. The sessions will be driven by your questions.

The last day to drop a class without an academic penalty is September 23; the last day to do the same *with the dean's approval* is October 21.

Midterm Dates:

Exam 1: Tuesday, September 15-th

Exam 2: Tuesday, October 20-th

Exam 3: Tuesday, November 24-th

Final Exams: At present, the final exam time and date listed by the university is;

Friday, December 11. 9:00am-12:00am.

The location of the final exam will be announced in class and posted on the course website as soon as this information becomes available.

Homework Assignments: will be announced in class and posted on the course website along with their due dates. Homework will usually (but not always) be collected on Thursdays, at the beginning of class. **No late homework will be accepted.** I will drop your three lowest homework grades at the end of the semester, but anything on a homework is fair game for an exam. The homework is my way of telling you what I think is important.

- Homework must be stapled together, and folded vertically. Write your name, your course number (M408L), discussion time (10-11 or 12-1) and my name ("Mireles James") both in the upper right hand corner, and on the outside. This helps the grader keep up with them. Homework not submitted in this manor will not be accepted.
- Illegible homework will not be graded.
- No work, no credit. I am not interested in the answers to the questions. I am interested in how you arrive at the answers. All work should be shown, should be neat, and organized logically with correct notation. Explain your work to me as if I don't understand it.

Grading: The grade distribution is as follows:

Midterms (60% total): Exam 1, 2, and 3 are each worth 20%.

Final: worth 30% of the total course grade.

Homework: Worth 10% of the total grade.

The final exam is comprehensive and mandatory.

Grades will be determined as follows: A (90-100%), B (80-89%), C (70-79%), D (60-69%), F(0-59%). A final curve will be given only at the instructor's discretion. Plus or minus grades will not be assigned, unless I am commanded to do so. At this time I have not been so commanded. I will make an announcement if the situation changes.

Review Sessions: The TA will hold a two hour, attendance optional, out of class review session for each of the three exams and the final. Times and places to be announced.

Pop Quizzes: Quizzes may be given at any time during lecture or discussion. A quiz grade will count as a homework grade.

Attendance and Class Participation: Attendance will be taken for both lectures and discussion sessions, but it is not a component of your course grade. Nevertheless, I will conduct class on the assumption that you are attending all lectures and discussion sessions. You are responsible for all material covered in lecture and discussion sessions.

Make-up Policy: In principle, no make-up or early exams are given. If you miss a midterm, your final exam will be substituted for the missed grade (making your final exam count up to 50%). This can be done for at most one midterm. The final exam is mandatory.

Incomplete Policy: An Incomplete will not be given except in extreme cases and with written documentation of the reasons. Extreme means that something drastic occurred after the official university withdrawal date.

Calculator Policy: Use of calculators will not be permitted during quizzes, midterms, or the final.

My advice is that you not use them on the homework assignments, except possibly to check your completed work (if you like). However, even this is not necessary. It is always possible to check your work by other means. We will talk more about this as the course progresses. If you get in the habit of checking your work "by hand" on the homework exercises, you will have an easier time knowing you are right on the exams. If you lean too hard on the calculator when working the exercises, the test will be difficult.

Study Resources: some sources of help are:

- Your classmates. Working together in groups can be great. Try to both explain and get explained to.
- Instructor and TA office hours. If you are confused, come talk with us. We like to talk about math, and want everyone to understand what is going on. Don't suffer in silence.

- Speaking of not suffering in silence, feel free to ask questions during lecture and especially during “discussion sessions”.
- TIP tutoring (PAI 4.28). *All* students in this class are welcome to use the TIP tutoring service. I’ll provide more details in class as I receive them.
- Textbook web; www.stewartcalculus.com
- UT Learning Center (Jester Center A332A). Their phone number is 471-3614 and their web page is www.utexas.edu/student/stlc. Check your financial aid package to see if it includes some free tutoring (they often do...)

Students with Disabilities: The University of Texas at Austin provides upon request appropriate academic accommodations for qualified students with disabilities. For more information, contact the Office of the Dean of Students at 471-6259, 471-4641 TTY.

The instructor reserves the right to amend, append, or otherwise make changes to the plan for the course. Major deviations from this syllabus will be announced on the course web site.