

MATH 2144, Calculus I, Syllabus

Section 007: MWF 2:30-3:45, MCSC 514

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Office Hours: Thursday 1:00-3:00pm or by appointment

Prerequisites: A satisfactory score (minimum 70) on the ALEKS placement exam, or a grade of C or better in a college-level course in Trigonometry or Pre-Calculus

Required Materials: (1) Textbook: Calculus: Early Transcendentals, 2nd edition, by Jon Rogawski, and (2) Online homework system WebAssign (<http://www.webassign.net>)

Cell phones: Cell phones MUST be turned off and OUT-OF-VIEW during class. Don't be rude.

Goals and expectations for the course:

- Calculus deals with functions, mathematical objects that relate two varying quantities, and the rules that govern the rates at which one of these quantities changes or accumulates with respect to the other. Our goal in this course is to ensure that you understand the concepts and tools of Calculus, that you master the skills required to use those tools, and that you will be able to apply those ideas to solve problems in many disciplines.
- Thinking and reasoning with mathematics
- Written and oral explanations
- Rule of Four: representing mathematics algebraically, graphically, numerically, and verbally
- Learning how to learn mathematics:
 - Reading the text;
 - Taking notes to highlight things that are important and things that you want to make sure to remember;
 - Learning from your mistakes;
 - Practicing, i.e., doing homework: Sophocles (497 – 406 BCE) captured the value of “practice” in mathematics when he said “One learns by doing the thing; for though you think you know it, you have no certainty until you try”;
 - Asking questions;
 - Learning from and with peers.

Graphing Calculator Usage: In this course, graphing calculator usage will be permitted on exams as long as your calculator does not have wireless or Internet capability, a QWERTY keyboard, or a camera. TI-83/TI84 are approved calculators, if you have another calculator, I will need to approve it. If you do not own an acceptable graphing calculator, you may borrow one from the Math Department office without charge, starting Tuesday, August 21. Exams in this course will consist of free response questions that will require you to show all steps in your solutions and to fully justify your conclusions. We strongly recommend that your best exam preparation will be to write out homework solutions by hand, in a manner that is consistent with exam expectations using your calculator for numerical steps and for checking your work.

Final Grade for the Course: The Course Final Grade will be based on the following requirements:
Exams, worth 70% of your grade, consist of 3 hourly exams and a comprehensive final exam.
Course grades are determined in one of two ways, whichever produces a higher average:

Option 1: Hourly exams 15% each, Final exam 25%

Option 2: Hourly exams 10% each, Final exam 40%

Exam 1, Wednesday, February 6; Chapters 1, 2, and Sections 3.1 and 3.2;

Exam 2, Wednesday, March 13; Chapter 3 and Sections 4.1, 4.2, 4.3, and 4.4;

Exam 3, Wednesday, April 17; Chapter 4, Chap. 5 Sections 1-8;

Final Exam: Wednesday, May 1, 4:00--5:50 PM in **CLB 112**

WebAssign Assignments, worth 10% of your grade, are online homework assignments corresponding to all sections of the text, typically due a few days after each section is covered in class. You should download and print out each assignment, write solutions in a homework notebook (either loose leaf or spiral bound), and then enter solutions into the online system by the due date.

The class key for Math 2144, Section 007 in WebAssign, our online homework system, is: **okstate 3523 7487**. Students should set up their account and self-enroll for access to our section during the first week of class at <https://www.webassign.net/login.html>.

Written Assignments and Quizzes will be worth 20% of your grade. Quizzes will be unannounced and over the content covered in class, in the text, and from the WebAssign online system. At a minimum 12 quizzes will be given, each worth a maximum of 10 points. The ten highest scores and a single gateway quiz will be used as the Quiz Score and will count for 15% of your grade. There will be one gateway quiz of ten questions on derivatives. The gateway quiz will be graded by: full credit for 8 or more correct answers, zero credit for 7 or fewer correct. The gateway quiz will count as 5% of your Quiz Score. There will also be about 6-10 written group assignments that will count for 5% of your grade.

The Course Grade: The course grade will be determined by the normal 90-80-70-60 scale. These cutoff scores may be lowered if circumstances warrant:

Attendance: There will be a 2% bonus for missing 4 or fewer days. 0.5% will be deducted every additional day after 4. This means there is no bonus for missing 8 or more days.

The Mathematics Learning Success Center (MLSC) is on the fourth floor of the Classroom Building and on the first floor of the Edmon Low Library. The MLSC has tutors who are able to work with students from Calculus I and help you with your questions. Hours for Calculus I will take place in the Library during the following hours:

Monday through Thursday from 1:00 PM until 9:00 PM;

Friday from 1:00 PM until 5:00 PM;

Sundays from 3:00 PM until 9:00 PM.

Important Dates:

Monday, January 14, 2013: Last day to drop a course with no grade and no fees.

Friday, January 18, 2013: Last day to drop a course with 50% fees and grade of "W"

Monday, January 21, 2013: MLK Day.

Tuesday, February 19, 2013: Six-week grades are due

Wednesday, February 27, 2013: Gateway Quiz

Spring Break Week: March 18-22, 2013

Friday, April 5, 2013: Last day to drop or withdraw with an automatic grade of "W"

Friday, April 19, 2013: Last day to drop with an assigned grade of "W" or "F."

April 22-26, 2013: Pre-Finals Week

April 29 – May 3, 2013: Finals Week