Math 30 –Calculus I
Fall 2014

Instructor: Dr. Corey Shanbrom
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Office Hours: Monday 2-3:30pm and Thursday 10-11:30am, or by appointment

Prerequisites: Math 29 or four years of high school mathematics which includes two years of algebra, one year of geometry, and one year of mathematical analysis; completion of ELM requirement and a passing Calculus Readiness Test (CR) score. Enrollment in Math 30 (with a letter grade) in the previous semester is also acceptable. A CR score of 41 is passing; a score of 36-40 is advisory qualification and admission is left to the instructor's discretion. Any student who does not demonstrate a passing CR score by the end of the second week may not take this class.

Lectures: I am teaching four sections of Math 30; this syllabus applies to all.
 Sections 80/81: MWF 9-9:50am in Alpine 153 *and* Th 9-9:50am in Sequoia 122
 Sections 82/83: MWF 12-12:50pm in Library 127 *and* Th 12-12:50pm in Riverside 1012

Text: <u>Calculus, Early Trascendentals</u>, James Stewart, 7th edition. This is the official text, but it is not necessary to succeed in this course. In fact, almost any other modern calculus book (including older editions of Stewart) will suffice. We will not be using any text directly, as this is a lecture-based course with online homework. However, I do recommend owning some calculus book for the nice pictures and worked examples. Further, we will be covering chapters 2-5 of Stewart and following the book's structure fairly closely. Reading ahead is highly recommended. Also note that future calculus courses may require the 7th edition of Stewart.

Grading: Homework 25%, Midterms 45%, Final 30%. This is an approximation. Letter grades will be determined by a curve at the instructor's discretion.

Exams: There will be three midterms, each worth about 15% of your final grade. No notes, books, electronic devices, or bathroom breaks will be permitted during any exam. Exam make-ups will be permitted only in the case of a documented emergency. Midterm dates will depend on our progress, but will be announced at least one week before the exam. The final will be comprehensive and held as follows:
> Sections 80/81: Wednesday, December 17, 8-10am.
> Sections 82/83: Wednesday, December 17, 10:15am-12:15pm.

Homework: Homework answers are submitted and graded online, accessed through SacCT. All problems are multiple-choice. Detailed instructions appear on another document, entitled "Submitting Your Homework Using SacCT." Free SacCT training workshops are held in the Student Technology Center, Room AIRC 3007, August 25– September 11, Monday – Thursday at 10am and at 1pm every day. Problem sets will be available on SacCT. Due dates will be announced in class and also posted to SacCT; online HW is always due at 9am.

A solution to each problem will be available immediately after submission. Completion of certain problems will require a basic calculator.

You must *also* turn in written work for each problem by the assignment's due date. I will skim this and provide some feedback on the quality and clarity of your work, as I would on an exam. You must submit complete written work to get full credit for the assignment. Late homework will be accepted at a penalty.

Resources: I am your primary source for help with the material, but other resources are available. The Math Lab in Brighton 118 offers free drop-in tutoring from math majors, grad students, and sometimes faculty. It is open M-Th 9am-5pm and F 9am-1pm. You can and should form study groups; these can meet in the Math Lab as well. Other textbooks and websites (eg, Wikipedia, Mathworld, even Youtube) are helpful.

Peer Assisted Student Success (PASS) Advising: PASS Advising is designed to help students at the first sign of struggle in the class. Students who are referred for PASS Advising will meet throughout the semester with a highly trained peer advisor whose goal is to make sure you are on the right track and have the resources (both academic and non-academic) to succeed in the course.

Students who are repeating the course, are on academic probation, or perform poorly on exams may be required to meet with a PASS advisor. Students referred to PASS Advising will receive an email from the PASS Advising Coordinator with information on how to make an appointment with a PASS Advisor. Students who are referred to PASS Advising and who do not make and keep all of their appointments and/or who do not document completion of all requested PASS referrals will have a hold put on their registration for the next semester.

Catalog Description: Functions and their graphs; limits; the derivative and some of its applications; trigonometric and hyperbolic functions and their inverses; the integral; the fundamental theorem; some applications of the integral.

General Education:
GE Area: B4 (Mathematical Concepts and Quantitative Reasoning)
Writing Component: This class has a writing component. This means that you will have to write. On every exam you will find questions that require a paragraph or two explaining a concept, theorem, or method.
Learning Outcomes: Solve problems by thinking logically, making conjectures, and construction valid mathematical arguments. Make valid inferences from numerical, graphical, and symbolic information. Apply mathematical reasoning to both abstract and applied problems, and to both scientific and non-scientific problems.

Remarks: If you have a disability and require accommodations, you need to provide disability documentation to SSWD, Lassen Hall 1008, and discuss your needs with me as soon as possible.

Cheating of any type will result in disciplinary action and an automatic fail. This will show up on future background checks, grad school applications, etc. If you are unsure what constitutes cheating, please see Sac State's Academic Honesty Policy; I have provided a link on SacCT.