

Math 31 –Calculus II

Spring 2014

Instructor: Dr. Corey Shanbrom

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Office: Brighton 144

Office Hours: Monday and Tuesday 12-1:30pm or by appointment

Prerequisites: Math 30 or appropriate high school based AP credit. Unless you earned a C- or better in Math 30 last semester at CSUS, it is your responsibility to prove to me that you have met this prerequisite by the end of the second week; any student who fails to do so will be dropped.

Lectures: I am teaching two sections of Math 31; this syllabus applies to both.

Section 06: MTWF 8-8:50am in Brighton 214

Section 08: MWF 10-10:50am in Brighton 204 *and* Tu 10:30-11:20am in Alpine 148

Text: Calculus, Early Transcendentals, 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 5-8 and 11 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:

Section 06: Monday, May 19, 8-10am.

Section 08: Friday, May 23, 8-10am.

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 provided by IRT. Problem sets will be available on SacCT. Due dates will be announced in class and also posted to SacCT. 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-6pm 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.

Catalog Description: MATH 30 continuation. Methods of integration; improper integrals; analytic geometry; infinite sequences and series.

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.