

MATH 32, CALCULUS III: SPRING 2015

Lectures:

Section 1: Mondays, Tuesdays, Wednesdays, and Fridays, 8-8:50am

Room 214, Brighton Hall

Section 2: MWF, 10-10:50am, in Room 148, Alpine Hall, and Tuesdays, 10:30-11:20am, in Room 156, Alpine Hall

Instructor:

Michael VanValkenburgh

Room 140, Brighton Hall

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(916) 278-7075

Office Hours:

MWF 9-9:50am, and Thursdays 10:30-11:30am. Also by appointment.

Required Text: The free textbook *APEX Calculus*, found at <http://www.apexcalculus.com>
Topics Covered: Chapters 9–13. If you want to buy a paper copy, these chapters may be purchased as “Volume 3” of *APEX Calculus* on amazon.com

In addition, at the end of the semester, we will cover the following topics from “vector calculus” that are NOT in the free textbook: scalar and vector fields, divergence and curl, line integrals, conservative fields and their application to physics, Green’s Theorem, Stokes’ Theorem, the Divergence Theorem. You can find this material in many books, for example Stewart or Marsden/Weinstein; the latter can be found here: <http://authors.library.caltech.edu/25043/>

Prerequisite: Pass Math 31 (or its equivalent)

Grading Policy:

25% Homework, Quizzes, and Worksheets

15% Hour Exam 1

15% Hour Exam 2

15% Hour Exam 3

30% Cumulative Final Exam

Resources: the Math Lab in Room 118, Brighton Hall

Drop Policy: Please see <http://www.csus.edu/math/policies/DropS15.pdf>

Homework and Reading Assignments:

Homework: Details to come.

You are expected to read the relevant sections of the book, as listed on the class webpage.

You may do “preliminary work” with others (for example, you may give each other hints), but you are expected to write the detailed solutions on your own. If you get help from some source (including, but not limited to, a person or a website), you must clearly cite that source in your homework. Please do not share complete written solutions.

Exams:

- Exam 1: Section 1: Tuesday, February 17. Section 2: Monday, February 16
- Exam 2: Wednesday, March 11
- Exam 3: Friday, April 24
- Final Exam:
Section 1 (8am class): Monday, May 18, 8-10am.
Section 2 (10am class): Friday, May 22, 8-10am.

Exam Protocol:

- You will need pencils/pens and erasers, nothing more. Keep all devices capable of communication turned off and out of sight. Calculators are not permitted.
- Solutions to each exam will be posted promptly after the administration of the exam. You are encouraged to look at the solutions while the exam is still fresh in your mind.
- The final exam will be cumulative, but extra emphasis will be given to material covered after the third midterm.
- Do not make arrangements to leave campus prior to the final exam.

Accommodations:

If you have specific physical, psychiatric, or learning disabilities and require accommodations, please let me know early in the semester so that your learning needs may be appropriately met.

Absences:

You are held responsible for all work missed during absences. Late homework and make-up exams will only be allowed under rare circumstances, and, moreover, only with my explicit written consent.