

MATH 31: FALL 2019 CALCULUS II

Lectures:

Section 3:

Mondays, Wednesdays, and Fridays, 11-11:50am, in Room 209, Brighton Hall,
and Thursdays, 10:30-11:20am, in Room 450, Sequoia Hall

Instructor:

Michael VanValkenburgh
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Tentative Office Hours:

Mondays and Wednesdays, 12-2pm. Also by appointment.

Textbooks: I highly recommend the classic: Calculus (Early Transcendentals), by James Stewart (you can use as old as the 5th edition). Another good resource is OpenStax Calculus, Volume 2: <https://openstax.org/details/books/calculus-volume-2>

Prerequisite: Pass Math 30 (or its equivalent, for example, having the appropriate AP credit)

Learning Outcomes: Math 31 is an Area B-4 (Mathematical Concepts and Quantitative Reasoning) General Education course and thus has a writing requirement.

- Students will be able to solve problems by thinking logically, making conjectures, and constructing valid mathematical arguments.
- Students will be able to make valid inferences from numerical, graphical and symbolic information.
- Students will be able to apply mathematical reasoning to both abstract and applied problems, and to both scientific and non-scientific problems.

Grading Policy:

- 25% Quizzes
- 15% Hour Exam 1
- 15% Hour Exam 2
- 15% Hour Exam 3
- 30% Cumulative Final Exam

Homework, Classwork, Quizzes, and Reading Assignments:

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

I will post book problems that I expect you to do as homework. We will have regular in-class quizzes (usually weekly) with problems very similar or identical to the homework problems. We will also have time to work on problems in class (in groups or alone), as I walk around and provide help.

The best way to prepare for exams is to do the homework on your own and give a good effort on the quizzes. Consider them as short practice exams (and I will grade them just like exams).

Exams:

- Exam One: Monday, September 16
- Exam Two: Thursday, October 10
- Exam Three: Thursday, November 7
- Final Exam:
Section 3: Monday, December 9, 10:15am-12:15pm.

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 exam.
- Do not make arrangements to leave campus prior to the final exam.

Resources:

- the Math Lab in Room 118, Brighton Hall
- Peer Assisted Learning (PAL): There are optional sections (NSM 12F) that students can take concurrently with Math 31. These are offered several times per week (see schedule below). NSM 12F is a one-unit course, graded Credit/No Credit, which is facilitated by undergraduate students who have successfully mastered the material in Math 31. In these PAL sections, Math 31 students work in small groups on worksheets dealing with the course topics.

There are three sections this semester:

- (1) NSM12F-01 RVR 1004 MW 11-11:50am
- (2) NSM12F-03 MND 3007 TR 3-3:50pm
- (3) NSM12F-04 SLN 3008 MW 10-10:50am

I strongly recommend taking a PAL to all students. Data show an average boost in course grade between 15% and 20%, regardless of demographics, background, etc.

Even if you do not enroll in NSM 12F, you may still go to the PAL facilitator office hours for help. PAL office hours are held in SQU 315 and the times will be posted outside Prof. Shanbrom's office (Brighton 125) and SQU 315 when they become available.

Drop Policy: Please see https://www.csus.edu/college/natural-sciences-mathematics/mathematics-statistics/_internal/docs/drop-policy.pdf

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.

Basic Needs Support:

If you are experiencing challenges in the area of food and/or stable housing, help is just a click, email or phone call away! Sacramento State offers basic needs support for students who are experiencing challenges in these areas. Please visit our Basic Needs website to learn more about your options and resources available. <https://www.csus.edu/basicneeds/>