

# Calculus 2

MATH 31 – Spring 2021

 Dr. Joshua Wiscons (he/him/his)  
 Brighton (BRH) 144  
 **TBD**  
 [joshua.wiscons@csus.edu](mailto:joshua.wiscons@csus.edu)  
 [webpages.csus.edu/wiscons](http://webpages.csus.edu/wiscons)

*"I believe creativity and tenacity are two of the most beneficial traits to develop, not only as a mathematician, but as a human being. Creativity is the ability to imagine new possibilities and tenacity is the necessary skill to realize those possibilities. Develop your creativity by actively and constantly exposing yourself to new ideas, people, and experiences. Develop your tenacity by constantly creating new challenges for yourself. With enough creativity and tenacity nearly anything is possible."* - **Raymond T. Perkins III**

Welcome! I can't wait to meet you all and start our work together. Please let me know if you have any questions at all (about our course or anything else).

📍 **Location.** We meet via Zoom during the scheduled Monday, Wednesday, and Friday times. **We will NOT meet via Zoom on Tuesdays—instead, there will be a video and Canvas discussion.** More details and links are on [the course Canvas page](#).

📖 **Book.** *Calculus: Early Transcendentals*, Eighth Edition by Stewart. The book supplements what we do in class, but it is **not required**. WebAssign is also **not required**.

📅 **Typical Day.** A typical class meeting will consist of lecture and discussion.

✅ **Prerequisites.** MATH 30 (Calculus 1) or equivalent.

📄 **Catalog Description.** Methods of integration; improper integrals; analytic geometry; infinite sequences and series.

⚙️ **Learning Objectives.** Students will (1) develop the necessary competency with the concepts and mechanics of Calculus 2 for further work in mathematics and other fields, (2) increase their capacity for critical thinking and fact-based reasoning, and (3) improve their communication of mathematics.

👥 **Community Agreement.** Members of this class represent a rich variety of backgrounds and perspectives. Our class commits to providing an atmosphere for learning that respects diversity and recognizes it as a source of strength. While working together to build this intellectual community, we ask all members to:

- share their unique experiences, values, and beliefs;
- be open to the views of others and honor the uniqueness of their colleagues;
- appreciate the opportunity that we have to learn from each other in this community; and
- value each other's opinions and communicate in a respectful manner.

We will further develop this agreement together in class.

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## Course Components

*Online Homework.* We have regularly scheduled online homework—the main goal is to build comfort and confidence with the core techniques of the course. You are allowed and encouraged to work together, but you are expected to **enter your solutions on your own**. We will use the **free** system WeBWorK. More info will be posted in Canvas and on the [course webpage](#).

*Participation.* Our class will benefit greatly from the perspective, questions, and comments of each student. I will try to make space for various ways to bring your voice to our class, but your grade for this component will be based on your participation in regular Canvas discussions.

*Exams.* There are 3 take-home midterm exams. They are *tentatively* scheduled to start on Feb. 19, Mar. 19, and Apr. 23, each due two days later. There is also a take-home Final Exam. It will be due at the end of our final exam time: May. 19 from 10:15 AM–12:15 PM

## Grade Composition

Homework	20%
Participation	15%
Midterm Exams	45% (15% × 3)
Final	20%

*Maximum cutoff for grades: A- 90%, B- 80%, C- 70%, D- 60%, F 59–0%.*

**Attendance.** Please come to class as much as possible! Our community will benefit greatly from a breadth of perspectives, and class will provide an opportunity to ask, clarify, and answer questions. However, I know that you all have varied and often challenging things going on in and beyond school, so missed classes will NOT affect your grade. **If you need to miss class, please send me a quick email in advance, so I know what is going on.**

**Policy Regarding Late Work.** Please strive hard to meet the deadlines, but if you need an extension for any reason, I am always happy to discuss it with you. Health related reasons will always be accommodated. Please send me a quick email as soon as you realize that extra time is needed.

**Accommodations.** If you know or think that you might need academic adjustments or accommodations, of any kind, please speak with me privately as soon as possible. If you have one, please bring a copy of your accommodation letter from the [Services to Students with Disabilities \(SSWD\) office](#). All discussions will remain confidential.

**Tutoring and Advising.** The [\(Virtual\) Math Lab](#) provides **free** assistance to students in lower-division mathematics/statistics courses. More info: [www.csus.edu/college/natural-sciences-mathematics/mathematics-statistics/explore.html](http://www.csus.edu/college/natural-sciences-mathematics/mathematics-statistics/explore.html)

The [Peer and Academic Resource Center \(PARC\)](#) provides **free** peer tutoring and advising. For more info and to make an appointment, go here: [www.csus.edu/student-affairs/centers-programs/peer-academic-resource](http://www.csus.edu/student-affairs/centers-programs/peer-academic-resource)

**Peer Assisted Learning (PAL) Sessions** There are optional, adjunct sections (NSM 12F, Peer-Assisted Learning MATH 31) that students can take concurrently with Math 31. These are offered several times per week ([see class schedule](#).) NSM 12F is a one-unit course, graded Credit/No Credit, which is facilitated by undergraduate students (PAL leaders) who have successfully mastered the material in Math 31. In these PAL sections, Math 31 students will work collaboratively through problem sets designed by a MATH 31 instructor.

**Technology** The emphasis of this course is on conceptual understanding, but feel free to use calculators/computational software to support your efforts and check answers on homework assignments. I'm a big fan of [Desmos](#) for graphing and [WolframAlpha](#) for other computations. However, exams may have restrictions on what technology is allowed.

## **General Education** GE Area: B4 (Mathematical Concepts and Quantitative Reasoning)

*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 abstract and applied problems, and to scientific and non-scientific problems.

*Writing Component* The course will have a writing component, evaluated for clarity and style and aimed at improving the students' ability to write logically precise, well-structured, and well-justified mathematics.

**Sickness.** If you are sick, please do not attend any of your in-person classes, but do let your instructors know. If you are experiencing any COVID-like symptoms (fever, cough, sore throat, muscle aches, loss of smell or taste, nausea, diarrhea, or headache) or have had exposure to someone who has tested positive for COVID, please contact [Student Health & Counseling Services \(SHCS\)](#) at 916-278-6461 to receive guidance and/or medical care.

**Cheating** Cheating will result in disciplinary action and will be reported to the [Office of Student Conduct](#). If you are unsure what constitutes cheating, please speak with me and review Sacramento State's *Academic Honesty Policy and Procedures* document here: [www.csus.edu/umannual/student/stu-0100.htm](http://www.csus.edu/umannual/student/stu-0100.htm).

## **Campus Resources**

*Crisis Assistance & Resource Education Support (CARES)*. Help is just a visit, a phone call or an email away. The CARES office provides support to students who are in crisis or experiencing unique challenges to their education including food and/or housing insecurity, transportation barriers, mental health & wellness, and much more.

Learn more about your options and resources here: [www.csus.edu/student-affairs/crisis-assistance-resource-education-support](http://www.csus.edu/student-affairs/crisis-assistance-resource-education-support).

*Services to Students with Disabilities (SSWD)*. If you know or think that you have a learning or physical disability, please contact SSWD. SSWD offers a wide range of support services and accommodations for students to ensure students with disabilities have equal access and opportunity to pursue their educational goals.

Learn more here: [www.csus.edu/student-affairs/centers-programs/services-students-disabilities/](http://www.csus.edu/student-affairs/centers-programs/services-students-disabilities/)

*Student Health and Counseling Services*. The first floor (of the WELL) is the walk-in urgent care center for urgent medical and mental health concerns. Cooking classes, nutrition services, alcohol, tobacco and other drug education, violence support services, and peer health education programs are also offered. The second floor is the appointment based clinic for medical appointments and counseling services including groups and individual counseling. Currently enrolled students who pay health fees are eligible to access services. Additional fees may apply to specialty services, procedures, pharmaceuticals, vaccines, and supplies.

Confidential counseling services are available for Sacramento State students. Counselors are located on the second floor of the WELL. Appointments can be made 8:00am–5:00pm, Monday–Friday. Call 916-278-6461 or go here [shc-pncweb.saclink.csus.edu](http://shc-pncweb.saclink.csus.edu) to make an appointment.

If you are in immediate crisis, please call 9-1-1 or the Suicide Hotline at 1-800-273-TALK (8255).

Learn more here: [www.csus.edu/student-life/health-counseling](http://www.csus.edu/student-life/health-counseling)

*More Resources*. Sacramento State offers many more resources to support you and your peers. Learn more about many of them here: [webpages.csus.edu/wiscons/more/SacStateCampusResources.html](http://webpages.csus.edu/wiscons/more/SacStateCampusResources.html). And please let me know if you have any questions!