

## MATH 173: CALCULUS II

INSTRUCTOR: DANNY LARA

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Class Room: Virtual

Virtual Office Hours: W,TH, F 12:00pm -1:00pm

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### COURSE DESCRIPTION

We will look into anti derivatives and their associated interpretation. We will begin with a motivating example to establish the need to find the area under a curve. We will state the definition of the Riemann Integral, explore the Fundamental Theorems of calculus, and explore the interpretations of these Theorems..

We will then spend some time learning techniques of integration. These techniques include substitution, integration by parts, and trigonometric substitution. We will also explore numerical methods of integration.

Lastly, we will look into the applications of integrals. These include finding areas between curves, arc lengths, and findings volumes of solids of revolution. We will explore applications of integrals in physics (like density and work) and in statistics. We will then introduce differential equations, interpret their solutions, and learn to set up fundamental models.

### TEXTBOOK AND MATERIALS

- The textbook used for the course is Calculus, 4th Edition (Early Transcendentals) by Rogawski, Adams, and Franzosa.
- Zoom Access: Office hours will be hosted on Zoom. You will need to download to your computer, tablet, or phone. If you haven't used Zoom before, CWU has created a Zoom Tutorial handout to help you get started. [Click here for the tutorial handout](#). Feel free to reach out to me with any questions!
- You will need the following login information to access Zoom drop-in hours this quarter
  - **meeting id:** 817 098 6799
  - **or just click on this link.** The link is also on the front page on the canvas course.
  - **password:** limsup
  - *If you don't have access to zoom, the discussion boards (see canvas) will be your next best alternative.*

### GRADED COURSE WORK

Grades are done via a point system. Everyone starts with zero points at the beginning of the semester. Complete assignments to earn points for the grade that you want.

**Homework (400 points).** Homework is assigned via webwork. See the webwork page on canvas for more information on how to login. Some of the benefits of this online homework system include

- immediate feedback on your submitted answers.
- you have unlimited attempts per problem.

In addition, you will have a set of video quizzes. These quizzes have unlimited attempts and the questions come directly from the lectures. (almost directly of course).

**Mastery Quizzes (450 points).** Each module will have an associated Mastery Quiz. These will be taken every 3 weeks (roughly). Students have 3 chances to take these mastery quizzes. Their most recent score is the one recorded on canvas. There will be 10 mastery quizzes each worth 45 points. These Mastery Quizzes are timed and you are free to use your notes.

**Labs (100 points).** There will be 10 labs, each worth 10 points. The purpose of these labs is to motivated content, explore different concepts and promote learning from your peers. Each discussion will outline the objective and its grading criteria.

**Final Exam (100 points).** There will be one final cumulative exam. This exam is optional.

**Project (30 points).** There will be one optional project that applies the material you have learned throughout the quarter.

### GRADING POLICY

Letter Grade	Points
A	$\geq 930$
A -	$\geq 900$
B+	$\geq 870$
B	$\geq 830$
B -	$\geq 800$
C +	$\geq 770$
C	$\geq 730$
C-	$\geq 700$
D+	$\geq 670$
D	$\geq 630$
D-	$\geq 600$
F	$< 600$

**Accommodations.** I understand the need to set up academic adjustments due to disabilities. Bring a copy of your *Confirmation of Eligibility for Academic Adjustments* to set up proper accommodations. If you need testing accommodations, let me know ahead of time (at least 48 hours prior to the exam date). Students with disabilities should contact Disability Services to discuss a range of options to removing barriers, including accommodations. Disability Services is located in Hogue 126. Call (509) 963-2214 or email ds@cwu.edu for more information.

**Student Expectations.** As a student, you have certain expectations of me. These include knowing the material, answering emails, be present during office hours and so on. In return I expect all students to turn in work on time and invest time learning the material. Due to the Global Pandemic, this may become difficult at times. Send me an email about your situation for deadline extensions.

In compliance with RCW 28B.137.010, Central Washington University makes every effort to deal reasonably and fairly with students who, because of religious obligations, have conflicts with scheduled exams, assignments or required attendance. Students must present written notice to their instructor within the first two weeks of class listing the specific dates on which accommodations are required. Contact the Dean of Student Success at (509) 963-1515 for further information or questions.

**Emergency Pass/Fail Grades (Spring 2021).** To help you do your best work in this time of unusual stress and change, CWU is providing a grading option called Emergency Pass/Fail (EP/EF) Grades.

- You may elect EP/EF conversions on a course-by-course basis. Upon such election, letter grades of C- or higher shall be converted to a passing grade of EP; grades of D+ or lower shall be converted to EF.
- You will have 3 days after the date on which final grades are due to choose to retain the assigned letter grade or to choose an EP/EF grade. This choice will be available on a course-by-course basis.
- Credits earned with a grade of EP/EF are not included in the computation of grade point averages. Credits earned with a grade of EP shall count toward program-specific passing requirements and general education requirements. Moreover, a grade of EP shall satisfy the prerequisites of subsequent courses.
- Transcripts that show a grade of EP/EF shall include a statement indicating that a state of campus emergency existed during the quarter in which the grade was posted. Credentialing for some programs/scholarships may require you to select the graded option.
- Consult with your major advisor before choosing the EP/EF grade.

**Professionalism.** CWU expects every member of the university community to contribute to an inclusive and respectful culture for all in its classrooms, work environments, and at campus events. As a student in this course, you are expected to treat your professors, fellow students, and other people affiliated with your work at CWU with respect, regardless of their sex, race and color, religion and creed, national origin,

sexual orientation, gender identify and gender expression, disability and use of assistive devices or a service animal, and veteran or military status.

**Academic Honesty.** Consult university policies (CWUP 5-90-040(22), CWUR 2-90-040(22), and WAC 106-125-020) for student conduct, cheating, plagiarism, and other academic expectations. CWU's policies and recommendations for academic misconduct will be followed, leading to disciplinary action up to and including failing the course.

**Disability Support Services.** Central Washington University is committed to creating a learning environment that meets the needs of its diverse studentbody. If you anticipate or experience any obstacles to learning, contact Disability Services to discuss a range of available options to removing barriers, including accommodations. Student Disability Services is located in Hogue 126. Call (509)963-2214 or email [ds@cwu.edu](mailto:ds@cwu.edu) (<mailto:ds@cwu.edu>) for more information.

**Changes.** I reserve the right to amend, adjust, or otherwise modify the syllabus at any time during the course. This syllabus is the best approximation of what students should expect during the course.