

Calculus I - Math 173 (5 credits) – Spring 2022

Instructor: Dr. Brent Hancock

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Class times: N/A (Class run asynchronously online)

Office hours: Mon & Wed from 1:00-2:50pm via Zoom, or by appointment (please email me to set up an appointment).

Office Hours Zoom link/info:

<https://cwu.zoom.us/j/88625688577?pwd=WVFTVGlrZnpWcmtRV25rU3NDRHYwUT09>

Meeting ID: 886 2568 8577

Passcode: 067927

What you will need:

- Textbook: *Active Calculus (Edition 2.1)* by Boelkins, Austin, and Schlicker, ISBN: 978-1724458322.

This textbook is a free, open-source text that is available in several formats, including HTML and PDF. Links to access the text can be found at <https://activecalculus.org/>

I suggest accessing the book via the HTML link because the HTML version has additional tools built in such as (optional) extra practice problems at the end of each section and clickable content throughout.

- Some kind of graphing calculator (TI-83, 84, or similar)
- Access to Canvas online at <http://canvas.cwu.edu> (this is where I will post course videos, handouts, grades, policies, announcements etc. so it is important that you log on regularly).

What you will learn:

By the end of this course, you will develop calculus skills that will enable you to:

- compute antiderivatives and definite integrals of mathematical functions
- use the integral to calculate accumulating quantities
- apply integrals to mathematical models to answer real-world questions
- explain theoretical and real-world meanings of integrals

Where else you can get help (aside from office hours):

- University Math Center (free!): see <https://www.cwu.edu/academic-success/math-center/math-center>
- Yourself (read the textbook, etc.)
- Each other (virtual study groups, etc.)

What you need to do to succeed in this class:

- Do the homework and take it seriously
- Start assignments early
- Come to office hours
- Read the corresponding sections in the textbook as we progress through each chapter
- Contact me *right away* if a problem arises
- Don't be afraid to initially get things wrong. Work hard to overcome obstacles

What the course assessments look like at a glance (more details on the next page):

- Pre-recorded lecture videos posted to Canvas
- Virtual office hours at prearranged times
- Weekly homework quizzes with problems similar to assigned practice homework problems
- 3 “chapter” exams (see schedule) and a comprehensive final exam

Online Layout:

This class will be run remotely online, in an asynchronous format. Naturally this modifies how the day-to-day layout will look. For this course, I will post links of online videos that will essentially act as short digital lectures. I will also specify suggested textbook readings (from *Active Calculus*) which correspond to the content from the videos.

****IMPORTANT**:** You will NOT be required to meet at synchronous times with the whole class. You will only be graded on the assessments listed in the table on page 3. That said, I will be available for (optional) virtual office hours on Zoom during the listed times on Mondays/Wednesdays if you have questions along the way.

Daily agendas, including links to the online videos, will be posted to the Modules page on Canvas and organized by week.

Important policies:

- No late work is accepted without *prior arrangements* made with me due to extenuating circumstances.
- 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.

COURSE ASSESSMENT DETAILS

Homework Practice Problems:

So that you can practice the primary skills in the course, I will post “homework” practice problems regularly on Canvas. These problems **will not be collected**, but rather I will provide an answer key for you to check your answers against in preparation for the homework quizzes and exams (see below for details on those). Although you will have access to “final answers” for these practice problems, you will be expected to show all work and your full process on the weekly homework quizzes.

Homework Quizzes:

Once per week, there will be a short 10-15 minute quiz due to Canvas. These quizzes will very closely resemble select problems from the homework practice problems assignments. These “homework quizzes” will take place on **most Fridays**, unless I announce otherwise in advance. The purpose of these quizzes is to allow you to:

- practice calculus skills from the homework in a low-stakes, in-class “testing” environment

- demonstrate your problem-solving *process* so I can give you feedback on more than your final answer

Chapter Tests and Final Exam:

We will have three chapter tests in this class, roughly equally spaced throughout the quarter. Exact exam dates will be announced in class and listed on Canvas under the corresponding weekly module. We will also have a cumulative final exam covering all the material from this course.

Please note that there will be no makeup exams. Exceptions will only be granted if you miss an exam due to a *verifiable and documented* medical emergency or other university-authorized absence (eg. official CWU sports team obligation, participation in religious observance etc.) and have given me *appropriate advance notice*. Please consult the University student handbook for details on what is considered to be a University-authorized absence, and provide me with a written request ASAP (i.e. before the drop deadline) if you think you will have a conflict with any test dates. 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.

COURSE GRADE CALCULATION

Weight	Assessment category (grading scale)
30%	Homework Quizzes
45%	Chapter Tests (3)
25%	Final Exam

Letter grades will be assigned as follows:

A-	90.0 - 92.9%	A	93.0 - 100%		
B-	80.0 - 82.9%	B	83.0 - 86.9%	B+	87.0-89.9 %
C-	70.0 - 72.9%	C	73.0 – 76.9%	C+	77.0 - 79.9%
D	60.0 - 69.9%				
F	0 - 59.9%				

Disability Support Services:

Central Washington University is committed to creating a learning environment that meets the needs of its diverse student body. Students with disabilities should contact Disability Services to discuss a range of options to removing barriers, including accommodations. Disability Support Services in Hogue 126. They may also be reached via email at (DS@cwu.edu).

Changes to the syllabus:

I reserve the right to make modifications to this syllabus at any time. In the event of such changes, I will notify the class and upload a revised syllabus on Canvas.