

## Calculus I - Math 173 (5 credits) – Spring 2020

**Instructor:** Dr. Brent Hancock

**Email:** [brent.hancock@cwu.edu](mailto:brent.hancock@cwu.edu)

**Class times:** N/A (Online)

**Office hours:** Tues & Thurs from 10:00am-12:00pm via Canvas (on Blackboard Ultra), or by appointment

### What you will need:

- Textbook: *Calculus: Early Transcendentals (4<sup>th</sup> Edition)* by Rogawski and Adams, ISBN-13: 978-1-319-05341-3. **NOTE: You may access a free e-text of the 4<sup>th</sup> edition via the *Achieve* online platform. More info on Canvas.**
- 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
- 3-5 online HW assignments per week, usually due Tuesdays and Thursday evenings
- 3 “chapter” exams (see schedule) and a comprehensive final exam

## Online Layout:

Because of the coronavirus pandemic, all Spring 2020 courses, including this one, will be run remotely online. 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. You also have free access to an e-text of our book via Macmillan *Achieve* (accessed through Canvas).

You should be able to access Achieve by clicking the “Macmillan Launchpad” tab within Canvas. When you go to the Achieve homepage, click on the “I need to Enroll in a Course” link and enter in the access code **WUG86U8F**. Entering the access code should grant you the 6 months of free access. Afterwards you might be asked for the course ID, which is **6emsek**.

**\*\*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 during the listed times on Tues/Thurs 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

### Online homework:

So that you can practice the primary skills in the course, we'll use the online system Macmillan *Achieve* (accessed via the “Macmillan Launchpad” tab on Canvas) to submit and assess homework. This HW system is free for the Spring 2020 quarter.

There are several benefits to using this online homework system, including:

- You will obtain immediate feedback on your submitted answers, as opposed to waiting days after submitting a traditional pencil-and-paper assignment
- You will be granted multiple opportunities on each problem to correct various mathematical errors you might make before the submission deadline. On problems with multiple parts, you can get partial credit if you only get part of a problem right.

There will be multiple (usually three to five) online HW sets assigned each week, usually due on Tuesday and Thursday evenings. These problems are mostly computerized versions of problems from the book.

### Chapter Tests and Final Exam:

We will have three chapter tests in this class, roughly corresponding to the material from chapters 5, 6, and 7 (respectively) from the textbook. Tentative exam dates will be announced on Canvas. 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<br>(grading scale) |
|--------|--|
| 30%    | WeBWorK sets                           |
| 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%     |                |                 |

**\*\* NOTE:** You also have the option to choose an Emergency Pass/Emergency Fail (EP/EF) grade, instead of a traditional letter grade (A/B/C etc.) at the end of the spring 2020 quarter. The cutoff for an EP grade will be a C- (70.0%) and a grade of EP will allow you to progress to Calculus 3. Please let me know if you have questions about this process.

**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](mailto: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.