

Calculus 172 Syllabus

Fall 2022

Instructor: Jim Miller

Office: Samuelson 228F, Hours: 9:30-9:50, 12:00-12:50, and 2:00-2:30. I will also take appointments for other times. I can also be reached: email millerji@cwu.edu, cell 509 674 8138; texting works to schedule a meeting time. I do have classes M-F at 10:00, 11:00, and 1:00.

Classroom: 172.002 10:00-10:50 in Samuelson 128, 172.004 11:00-11:50 in Samuelson 107, and 153.004 1:00-1:50 in Samuelson 252.

Text: *Math 172 Active Calculus 2* by Matthew Boelkins (<https://activecalculus.org/single/book-1.html>). We will be covering most of Chapters 1 through 3 of this textbook with possibly some other bits and pieces. The book can be purchased in hard back, downloaded in PDF, but the best might be the interactive online version in html, your choice.

Supplies: Paper, graph paper, sharp pencils, **graphing calculator** (recommend TI-83 or TI-84) or **Desmos**. Find a way to keep organized (three ring binder or note taking book) that you will bring every day to class.

Course Description: Prerequisite: Pre-calculus 153 and 154 or equivalent. This is the first course in calculus and requires the student to have a good understanding of functions including linear, quadratic, polynomials of higher degrees, exponentials, logarithms, radical, rational, and trigonometric. The course will investigate differentiation and its implications with application. This course incorporates the use of **graphing technology**, as they are excellent tools for visualizing some mathematical concepts and offer alternative ways of manipulating the mathematics.

Expectations: It is expected that you have are knowledgeable with linear and quadratic functions, radical, rational, exponential, trig functions, general graphing techniques as well as trig identities. If your skills are weak, you will be expected to be spending extra time early and perhaps throughout the course to succeed. Some students have spent as much as 4-5 hours out of class working on the material. Failure will be a choice you will have to make. Success will be the other option! Choose this option though it may be the harder choice. I will be there to help you if you choose this option and you can track your progress on Canvas.

Attendance: Daily attendance is expected and considered a necessity for passing this course. It is expected that you **actively** participate in class. Attendance and appropriate participation in class is crucial to your success and will be noted and recorded.

Homework: Homework will be collected regularly, perused, and recorded. Assignments can be found on Canvas-Pages and will be given in class. Changes in due dates may occur occasionally and will be stated in class. It is essential that you practice your math and **ASK** for guidance in areas where your understanding is weak. Completion of homework every day **MUST BE** a priority for you!

Grading: Your grade will be based on: the three chapter tests (50%); final (30%); homework (10%), participation (5%), and attendance (5%). Letter grades based on the overall percentage: 93 A, 90 A-, 87 B+, 83 B, 80 B-, 77 C+, 73 C, 70 C-, 67 D+, 63 D, 60 D-.

Suggestions for success: Many students find that forming peer study groups is very helpful to their success. In addition, there are several other resources: math-tutoring center (Library), YouTube, other websites, and the instructor. The key factor is to not get behind. Mathematics is a cumulative subject where new topics depend upon mastery of previous concepts. Finally, read every lesson and work through every example in addition to completing the suggested homework problems. Also use the YouTube videos provided by the instructor (my channel is *Professor Miller*) with links on Canvas and create a 3x5 note card for each chapter test and you will be able to use all three cards on the final.

Additional Notes

Accessibility and Accommodations: Central Washington University is committed to creating a learning environment that meets the needs of its diverse student body. If you anticipate or experience any barriers to learning, discuss your concerns with the instructor. 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.

Sexual Harassment/Equity/Diversity statement: As your instructor, I am committed to creating and sustaining a safe and inclusive environment for learning. I expect you, as students, to share this commitment with me as we have a shared responsibility to treat each other with dignity and respect. Mutual respect and nondiscrimination includes freedom from sexual harassment. CWU policy defines sexual harassment as unwelcome, sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature under particular conditions. Title IX considers sexual harassment to be a form of discrimination. If you experience sexual harassment, or know someone who is being sexually harassed, you are encouraged to report concerns to me, another faculty member or employee, or to Gail Farmer, Equal Opportunity, at [509-963-2206](tel:509-963-2206), farmer@cwu.edu, Bouillon 205. Complete policies are available online at www.cwu.edu/hr.

Academic Dishonesty: 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.

Is my absence excused? Excused absences will not lower your overall grade in this class and are determined on a case-by-case basis. Excused absences are those that are both valid and verifiable, e.g. illness, bereavement, and school-related activities. Documentation is required. Excused absences do not include travel for holiday breaks, work, or non-emergency travel delays.

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.

Students with disabilities who wish to set up academic adjustments in this class should give me a copy of their "Confirmation of Eligibility for Academic Adjustments" from the Disability Support Services Office as soon as possible so we can discuss how the approved adjustments will be implemented in this class. Students without this form should contact the Disability Support Services Office, or DS@cwu.edu or 963-2149. If you have non-qualifying issues talk to the instructor at your earliest convenience. **Do not wait!!!!**