



Central Washington University

Mathematics Department
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Ellensburg, WA 98926



Math 172

Calculus I

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CRN #30214

Spring 2020

Number of credits: 5

Optional Textbook: **Rogawski, J. (2008). *Calculus: early transcendentals* (4th ed.). New York: W.H. Freeman.**

Recommended Materials: Desmos graphing application

Additional optional materials: Graphing Calculator (TI-83/84 preferred), pencils, erasers, lined paper or graph paper, notebook, and large eraser.

Course Description: Theory, techniques, and applications of differentiation and integration of the elementary functions. Basic Skills Section C – Math.

Prerequisites: MATH 154 with a grade of C or higher, or an appropriate test score on the mathematics placement exam.

Math Mission Statement: In support of liberal education, scientific careers, teacher preparation, and actuarial science, the mathematics department prepares students for quantitative and symbolic reasoning and advanced mathematical skills through general education, service, major, and graduate programs.

Attendance: Although this course is online, I do expect regular participation with discussion groups and periodic check-ins. You have until **11:59 p.m., April 6th, 2020**, to be eligible for a refund. If you have to be absent for some emergency, be sure to contact me at the earliest possible time.

Grade: Grades will be assigned using 90% - 100% = A 80% - 90% = B 70% - 80% = C 60% - 70% = D; + and – grades apply if your score is within 2%.

Homework: Homework will be assigned primarily through Khan Academy, Desmos, and via canvas.

Khan Academy: The majority of work will be done in Khan Academy which has recorded lectures, articles, and assignments. The assignments are typically very short (4 - 6 minutes) and can be done multiple times. If you are having difficulty with a problem you can watch a video or use a hint for this exact problem. Fair warning though, you will not get credit for that problem. Since Khan Academy is not directly associated with the university, you do not have to put any of your personal information into Khan Academy. Go to <https://www.khanacademy.org/login> and add the course I have designed using the class code **28BB6H42**. Once you have added yourself, tell me what your pseudo name in Canvas under the assignment Name in Khan Academy so I can give you credit for your work here in Canvas.

Desmos is an app and website where you can graph functions, plot data, evaluate equations, explore transformations, and much more—all for free. Each of the desmos activities will have a class code that you will need to enter from student.desmos.com. I will have a link to each activity throughout the term.

Canvas: Periodically I will give assignments found in Canvas that will be submitted into Canvas.

Late work: You can submit work after the due date with instructor approval and a penalty between 20% - 50% penalty and an additional. Exceptions are given pending only with instructor approval.

Homework advice: Success in math goes hand-in-hand with completing the homework assignments. When doing your homework, feel free to ask for help. The Math tutor center is an excellent resource that is available to all CWU students. You can access math tutoring at <https://www.cwu.edu/academic-success/schedule-appointment>. Khan Academy is an excellent resource. The homework is assigned to provide you with enough practice to retain the ideas and techniques you're learning. Doing homework daily gives you the advantage of taking in smaller amounts of information at a time and getting help early when you need it. This is the class to begin to develop good study habits. If you need help outside of the classroom there are several options available to you: get a second opinion from a classmate, an assistant in the Math tutor center, or from me via canvas or e-mail.

Quizzes and Exams: There will be several exams given throughout this course. All will have no make-ups, if you know you will not be able to attempt/complete an exam, it is your responsibility to arrange to take the exam before it is given. The lowest exam as well as two lowest quizzes will be dropped from your overall grade.

Discussions/Regular check in: I encourage you to contribute to the discussion boards in Canvas. This could be technical issues you are having with Khan Academy/Desmos/Canvas or issues related to the content/course. Although virtual, I want us to be a community that supports each other. I do want academic honest to be maintained, but often mathematics can be challenging and how we address these challenges can have a meaningful impact. I will also require arranged regular check ins from you throughout the term.

Grading: Grades will be based on

Homework	3% each	Total: 30%
Tests	15% each	Total: 45%
Quizzes	15% (each equally weighted)	Total: 15%
Discussions/Regular check in		Total: 10%

Disability Resources Statement: 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. Student Disability Services is located in Hogue 126. Call (509) 963-2214 or email ds@cwu.edu for more information.

Academic Honesty: Consult university policies (CWUP 5-90-040(22), CWUR 2-90-040(22), and WAC106-125-020) 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.