

**Instructor** : Aaron Montgomery

**Class** : MTW $\Theta$ F @ 8 am on Canvas

**Office Hours** : You may ask questions during class and by email.

**Email** : montgoaa@cwu.edu **Phone** : 963-1906

**Text** : **Calculus** by Rogawski & Adams

**Text Edition:**

All problems will be on WeBWorK. I will try to provide you section numbers for both the 3rd and 4th edition of the text. If you are continuing on to MATH 273 in Fall 2020, you will want the 4th edition. If you are purchasing a copy from a source other than the CWU bookstore, please note that there are multiple versions. The version you want **will** have *Early Transcendentals* on it and **will not** have *Single Variable* on it. You may buy the **Multivariable** version if you wish (as it might be cheaper). I will try to post images of these on Canvas.

**Lectures:**

Lectures will be taped...

**Office Hours:**

Office hours will be held...

**Course Outcomes:**

Students at the end of this course will be able to...

- compute partial sums
- identify and compute sums of geometric series
- apply various tests of convergence for power series
- determine and manipulate Taylor Polynomials and Taylor Series
- perform algebraic operations on vectors and provide geometric interpretations of these operations
- describe and recognize graphs of multivariable functions
- determine limiting and continuity properties of multivariable functions
- compute partial derivatives, differentials, gradients, and directional

derivatives

- find equations of tangent planes
- find extrema
- communicate verbally and in writing one's understanding of mathematical concepts to others

### **Graded Coursework:**

You can work through the coursework as fast as you wish, but no slower than the deadlines posted on Canvas. I will try to keep ahead of the fastest students.

**Homework (90 points):** Ten (10) weekly homework assignments will be assigned and are due to me by 11:59pm on the due date. Your top 9 scores will count toward your final grade. Homework will consist of two parts: a WeBWork portion and an written portion.

**WeBWork (8 points):** This will be worth 8 points. You will receive immediate feedback on the correctness of your answers and may retry these problems as many times as you wish. Once you enter the correct answer, you can use the system to produce more practice problems (but you will not lose points for failing to do practice problems).

**Written (2 points):** This will be worth 2 points. You will be required to submit solutions for two of the WeBWork problems (the numbers will be specified in the homework set). These problems will be graded based on their clarity and neatness (note, you should already know that you have the correct answer from WeBWork). Please submit only **one** file per assignment on Canvas.

**Exams (150 points):** There will be three exams over the quarter, each exam will be worth 50 points. These will be posted on WeBWork, you are expected to take them without reference to the book or your notes and in a 60 minute window. Once started, you have 60 minutes to email me your solutions. Send only **one** file per exam.

**Final (60 points):** There will be a comprehensive final exam covering all

content in the course. It will be worth 60 points. Administered as per regular exams.

$\geq 87\%$	B+	$\geq 93\%$	A	$\geq 90\%$	A-
$\geq 77\%$	C+	$\geq 83\%$	B	$\geq 80\%$	B-
$\geq 77\%$	C+	$\geq 73\%$	C	*	
$\geq 67\%$	D+	$\geq 63\%$	D	$\geq 60\%$	D-

\* No, there will be no C- grades awarded this quarter. A C- grade in a mathematics class should not allow you to continue to the next course in the sequence (they are useful for students in terminal courses). However, because you could now convert a C- into an EP (Emergency Pass) grade after receiving your final grades, if I awarded a C-, you could convert it to a EP which would allow you to take MATH 273 in the Fall.

### Accommodations

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 Services is located in Hogue 126. Call (509) 963-2214 or email [ds@cwu.edu](mailto:ds@cwu.edu) for more information.

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.

Online Resources: The Math Department has tried to collect the links to various resources that are available to you during this quarter. You can find them at <https://www.cwu.edu/math/spring-2020-resources-students>