# Math 272: Multi-variable Calculus I

## Instructor: Danny Lara

## Fall 2019

E-mail: `Danny.Lara@cwu.edu`                     Class Room: Samuelson 149

Office Hours: M-Th 12:00-1:50pm              Class Hours: M-F 8:00am-8:50am

Office: Samuelson 218A

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## Course Description

This is a first course in multi-variable calculus. In this course students will be able to

- compute partial sums and understand what it means for a series to converge or diverge

- apply various test of convergence

- determine Taylor polynomials

- perform algebraic operations on vectors and provide geometric interpretations for these operations

- describe and recognize the graphs of multivariable functions

- be able to determine limiting and continuity properties of multivarible functions

- compute partial derivatives, differentials, gradients, and directional derivatives of multivarible functions

- find equations of tangent planes

- find extrema for multi-variable functions

In terms of the chapters in the book, we will cover section 8.4 and portions of Chapter 10 through 14.

# Textbook

Calculus Multivariable by Rogawski and Adams, 3rd ed.; Freeman

# Graded Coursework

As with anything in life, you can only learn so much by spectating. Therefore you will have weekly homework and quizzes.

### Quizzes (40%)

Quizzes will be take home so that you may have time carefully write out your solutions. Quizzes will be assigned (usually) on Tuesday and due on Thursday by classtime or 4pm in my office. I will offer constructive feedback on your solutions. You may work with others but be sure to write your own solutions in your own words. You can come by office hours to ask for clarifying questions or work with your peers. I am always happy to assist you! I will drop the two lowest quiz scores from your final quiz grade and there are no quizzes during exam weeks.

### Homework (5%)

Homework will be assigned weekly and are due by classtime or 4pm on the due date. The homework grade will be based on completion. I will post solutions on canvas after the due date. If I forget, please remind me! I would greatly appreciate it !

### Exams (30%)

There will be three midterm exams over the quarter. Each exam is worth 10% of your final grade. The tentative dates for exams are as follows. October 16, November 6, December 5. If you cannot make the exam due to an illness, field trip, or an event that is out of your control let me know. Be sure to bring sufficient evidence for your excused absence so that we may set up proper accommodations.

### Final Exam (25 %)

There will be a comprehensive final exam covering all content in the course and will be scheduled during the schedule time on finals week.

### Grading Policy

Letter grades will be assigned according to the following scale:

|  | $\geq$ 93% A | $\geq$ 90% A- |
|---|---|---|
| $\geq$ 87% B+ | $\geq$ 83% B | $\geq$ 80% B- |
| $\geq$ 77% C+ | $\geq$ 73% C | $\geq$ 70% C- |
| $\geq$ 67% D+ | $\geq$ 63% D | $\geq$ 60% D- |

## Accommodations

I am understanding of the need to set up academic adjustments due to disabilities. Bring a copy of your *Confirmation of Eligibility for Academic Adjustments* to set up proper accommodations. If you need testing accommodations, let me know ahead of time (at least 48 hours prior to the exam date). 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.

## Student Expectations

As a student, you have certain expectations of me. These expectations include coming prepared for lectures, showing up to class on time, be knowledgeable in the course material, be respectful, listen to your concerns, receive timely feedback on your work, and to be understanding of your academic life outside our class. In exchange, I expect you

- to show up to class on time

- to respect to your peers

- to turn in your homework and quizzes on time

I understand that life happens. Please come see me during office hours (or we can set up a different time) if anything comes up that prevents you from turning in your work on time.
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.

## Professionalism

CWU expects every member of the university community to contribute to an inclusive and respectful culture for all in its classrooms, work environments, and at campus events. As a student in this course, you are expected to treat your professors, fellow students, and other people affiliated with your work at CWU with respect, regardless of their sex, race and color, religion and creed, national origin, sexual orientation, gender identify and gender expression, disability and use of assistive devices or a service animal, and veteran or military status.

## Academic Honesty

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.