

MATH 272: MULTIVARIABLE CALCULUS I

INSTRUCTOR: DANNY LARA

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COURSE DESCRIPTION

In this course, students will learn how to compute sums of geometric series, apply test for convergence/divergences for power series, and find the Taylor Polynomials for several types of functions. Then, we will explore vectors, vector operations, vector functions, and some vector calculus. We will introduce multivariable functions and explore how to find partial derivatives, differentials, gradients, and direction derivatives on multivariable functions. We will also define and find relative extrema and global maximums of multivariable functions. In terms of chapters, we will cover chapters 10, 12, 13, and 14.

TEXTBOOK AND MATERIALS

- The textbook used for the course is Calculus, 4th Edition (Early Transcendentals) by Rogawski, Adams, and Franzosa.

COURSE WORK

This course is graded by a methodology called Standard Based Grading. There are 8 required standards in the course and 8 optional standards for a total of 16 standards. Students will determine if they meet a standard by taking a quiz called an Evaluation. You will receive a rating for each standard. Instead of getting a percentage as a score, you will receive a rating.

- (3)-Excellent (E)
- (2)- Meets Standards (M).
- (1) -Not yet (NY).

Students will need to pass the 8 required evaluations with at least 4 evaluations with a rating of Excellent (E). You will have 3 chances for each evaluation to earn at least a C in the course. This system rewards growth. Rather than slowly losing points or having

your final grade impacted by a single exam, you can make progress towards your *A*.

Homework is assigned from your textbook. Homework is not part of your final grade. This is your practice before taking the Evaluations. Keep your homework organized in a notebook or binder. If you kept up with homework throughout the quarter, you will earn an optional standard.

- Evaluations will be available to take in class. Seven class days will be set aside for evals plus the final exam day. The eval day will be announced in advance. Based on your performance, you may retake an evaluation a 2nd or 3rd time. If you need to take an evaluation a 4th time, the highest rating you can earn is a "Meets Standard." Your highest rating will be recorded.
- You can choose which standards to take on eval day. If you feel unprepared for a particular standard, you can take it on the next eval day or schedule an appointment with me for another time.
- You can retake evals during office hours (or by appointment) but you must wait at least 3 days before each retake.
- The homework is your practice for the course content. The questions on the eval will be directly inspired from the homework or examples in class.
- No evals may be taken after the final day of class except during the final exam day. Students can only take an eval once and only once on the final exam day.
- eval results will be posted on canvas so that you can keep track of your progress.

GRADING POLICY

Grading Policy. There are 16 standards in this course with 8 being required and 8 optional. For each standard attempted, you will receive a rating on Canvas. (3) is Excellent (E), (2) is Meets Standards (M), or (1) Not Yet (NY) (this means you have not received credit for this standard). To pass this course with a *C*, you will need to pass all 8 required standards.

Letter Grade	# of Required	# of Optional
A	8 at E	6 at E
A -	8 at E	5 at E
B+	8 at E	4 at M
B	8 at E	3 at M
B -	8 at E	2 at M
C +	6 at E and 2 at M	1 at M
C	4 at E and 4 at M	0

Grade	# of Standards (any) at M
C -	7
D+	6
D	5
D-	4
F	3 or below

Accommodations. I understand 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 include knowing the material, answering emails, be present during office hours, showing up to class, and so on. In return I expect all students to put forth effort to work on assignments in the course, come to class almost every day, participate in class, and be respectful to both peers and instructor.

- Due to the pandemic, every student (and your instructor) is expected to wear a mask in class at all times. If you forget a mask, you can get a disposable one from the math office in the second floor.
- If things go south, we will temporarily go online via zoom.

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.

Disability Support Services. Central Washington University is committed to creating a learning environment that meets the needs of its diverse studentbody. If you anticipate or experience any obstacles to learning, contact Disability Services to discuss a range of available options to removing barriers, including accommodations. Student Disability Services is located in Hogue 126. Call (509)963-2214 or email ds@cwu.edu (<mailto:ds@cwu.edu>) for more information.

Changes. I reserve the right to amend, adjust, or otherwise modify the syllabus at any time during the course. This syllabus is the best approximation of what students should expect during the course.