

Math 371 Advanced Calculus
Spring 2020 (April 8 – June 8)

Instructor: Dr. Sooie-Hoe Loke

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Virtual Office Hours: MTW 9 – 9:40 AM and by email.

Course Goals: The goal of this course is to approach the real numbers and calculus from an axiomatic point of view. This course also offers students basic proof writing skills that are necessary for more advanced mathematics. Specifically, we will cover:

- Number systems (naturals, integers, rationals, and reals): axioms and properties
- Sequences and series of real numbers
- Continuity

Prerequisite: MATH 272 and {MATH 351 or MATH 335} or with permission

Required Text: Ross, *Elementary Analysis: Theory of Calculus*, 2nd Edition. We will cover Chapters 1, 2, 3, and parts of Chapter 4.

Course Assessment:

- Two midterm exams (35% total); tentative dates: Between Week 4 – Week 5 and between Week 8 – Week 9. Exact dates will be announced at least a week ahead.
- Comprehensive final exam (25%); given during finals week. Exact date will be announced at least a week ahead.
- Homework (40%); see below for more information.

Course grades will be assigned based upon the following scale:

93-100%=A	90-92.9%=A-	87-89.9%=B+	83-86.9%=B	80-82.9%=B-	77-79.9%=C+
73-76.9%=C	70-72.9%=C-	67-69.9%=D+	63-66.9%=D	60-62.9%=D-	below 60%=F

Course Structure:

Every week, lecture videos will be posted on Canvas via Panopto. Go to the Math 371 course in Canvas and click “Panopto Recordings” on the left navigation menu. The corresponding slides will be posted on Canvas under “Files”. Please watch these videos and read the textbook before attempting the weekly homework assignments.

Homework must be done neatly and submitted through Canvas as a single pdf file. You are encouraged (but not required) to typeset your assignment using \LaTeX . Otherwise, you will need to scan your handwritten work as a pdf file. Many smartphones have built-in functions to convert pictures to pdf files. In addition, here is a list of some apps with scanning capability: Adobe Scan, Cam Scanner, Microsoft Office Lens, Tiny Scanner. Your work should be clear, in a logical order, provide sufficient explanation, and use complete sentences where appropriate. Credit will not be given for late homework. You are welcome to work with others and to consult books, but your solutions must be written up in your own words. All your collaborators and sources should be listed. Credit will not be given to any party for work which is identical.

Weekly office hours will be administered via Blackboard Ultra. Go to the Math 371 course in Canvas, click “Blackboard Ultra” on the left navigation menu, click on “Advanced Calculus – Course Room”, and follow prompts to join session.

Spring 2020 resources: The Math Department maintains a list of student resources for this unusual spring quarter: <https://www.cwu.edu/math/spring-2020-resources-students>

Exams: Any changes to the tentative exam schedule will be announced in advance. Make-up arrangements must be made at least three days prior to an exam unless you can document an unexpected circumstance beyond your control that prevented you from taking the exam.

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.

Diversity Statement: 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.

Disability Support Services: CWU 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: call (509) 963-2214 or email ds@cwu.edu for more information.

Religious Holiday Absences: In compliance with RCW 28B.137.010, CWU 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.

Expectations for Student Conduct: Students in this class are expected to interact with students and the professor professionally. Instances of disruptive conduct¹, obstructive conduct¹, or harassment² will be referred to the Dean of Student Success.

The instructor reserves the right to change the policies contained in this syllabus as dictated by developments during the quarter. Changes will be announced via email and on Canvas.

¹Per WAC 106-125-020, the term “disruptive” or “obstructive” conduct means conduct, not protected by law, that interferes with, impedes, or otherwise unreasonably hinders the normal teaching, learning, research, administrative, or other functions, procedures, services, programs, or activities of the university. The term includes disorderly conduct, breach of the peace, violation of local or university noise policies, lewd or obscene conduct, obstruction of pedestrian or vehicular traffic, tampering with student election processes, or interfering with the orderly conduct of university investigations or disciplinary proceedings, including interfering with or retaliating against any witness, party, or other participant.

²The term “harassment” means unwelcome and offensive conduct, including verbal, nonverbal, or physical conduct, that is directed at a person because of such person’s protected status and that is sufficiently serious as to deny or limit the ability of a student to participate in or benefit from the university’s educational program, or that creates an intimidating, hostile, or offensive environment for any campus community member(s). Protected status includes a person’s actual or perceived race, color, national origin, gender, disability, or other status protected by law.