

Math 371 Advanced Calculus
Spring 2018 (March 27 – June 1)
MTWF 9 - 9:50am in HERTZ 105

Instructor: Dr. Sooie-Hoe Loke
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Office Hours: MTWF 11 - 11:50 AM and by appointment.

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}

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

Evaluation:

- Two in-class exams (35% total); tentative dates: Monday, April 23 and Monday, May 21.
- Comprehensive final exam (25%); given Thursday, June 7, from 8 - 10AM.
- Homework (40%).

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 Conduct:

- **Homework:** Weekly homework will be assigned in class. You will be given about one week to complete a regular assignment. You will also be asked to turn in outlines of some selected problems a few days before the actual assignment is due. For a complete outline, you should define all the mathematical terms in the problem, specify what information is given and what is to be proved, and provide a sketch of the proof.

Homework must be done neatly, stapled, and written on clean-edged paper. Your work should be in a logical order, provide sufficient explanation, and use complete sentences where appropriate. You may use/ask/talk to whatever/whoever you'd like, as long as you say what resources you used. However, you must write your solutions up in your own words to hand in. Credit will not be given for late homework.

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