

MATH 3243
Advanced Calculus
Summer 2017

Instructor: Dr. N. S. Hoang

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Office: Boyd 324

Office phone: 678-839-5336.

Office hours: TR: 9:00-11:00 AM; 1:30–2:00 PM, 4:30–5:00 PM.

Class meeting time: TR: 2:00–4:30 PM.

Class room: Boyd 306.

Text: *Elementary Real Analysis, 1st edition by Brian Thompson, Judith Bruckner, and Andrew Bruckner.*

Description: This course is a rigorous introduction to the fundamental concepts of single-variable calculus. Topics include the real numbers, limits, continuity, uniform continuity, differentiation, integration, and sequences and series.

Grading: Grades are based on a total of 700 pts given as follows

Total	Homework	Exam 1	Exam 2	Exam 3	Final Exam
700 pts	200 pts	100 pts	100 pts	100 pts	200 pts

Grading scale: A: 90-100%; B: 80-89%; C: 70-79%; D:60-69%; F:0-59%.

Exams: There are three midterm exams given on Jun 15th, Jun 29th, and Jul 18th. Final exam is scheduled on July 21st from 3:00-5:00 PM and is a comprehensive exam.

Homework: Homework will be assigned in class and will be graded.

Classroom Behavior: You are expected not to disturb your classmate's learning. No phone or computer use during class without instructor's permission.

Attendance: Attendance is expected and required. You are responsible for all material covered in class and all announcements made.

Common Language for Course Syllabi: Students, please carefully review the following information at the link <http://tinyurl.com/UWGSyllabusPolicies>. It contains important material pertaining to your rights and responsibilities in this class. Because these statements are updated as federal, state, university, and accreditation standards change, you should review the information each semester.

Withdrawal Policy: The deadline for an automatic W withdrawal is: June 23rd. For more information about withdrawal policy, please read the information at the link

http://www.westga.edu/advising/index_5310.php

Make-Up Work: There are NO make-up grades for ANY reason. Students having an unexcused absence on the day of a graded assignment will receive a grade of zero for that assignment. Students having an excused absence on the day of a test will have their test average entered for the missed grade. Absences must be excused before they occur except in extraordinary cases, such as active military duty, jury duty, or hospitalization. Being sick, short of being hospitalized, is not an excuse. If you anticipate being absent from class for a religious holiday, it is your responsibility to notify me in advance.

Learning Outcomes: Students should be able to

- Use properties of real numbers to prove theorems about their structures,
- Use the definition of limit to prove convergence of sequences, series, and functions,
- Use the definition of continuity to prove properties of continuous functions,
- Use the definition of differentiability to prove properties of differentiable functions,
- Use the definition of Riemann integral to prove properties of integrals.