

# Math 409: Advanced Calculus I

## Fall 2017

**Lecturer:** Zhizhang Xie

**Lectures:** MWF 9:10-10:00am, Blocker 160

**Office:** Blocker 633C

**Email:** [xie@math.tamu.edu](mailto:xie@math.tamu.edu)

**Office Hours:** Monday 1:30 - 3:30pm or by appointment

**Prerequisites:** MATH 220; MATH 221, MATH 251 or MATH 253.

### Course Outline:

Axioms of the real number system; point set theory of the real number line; compactness, completeness and connectedness; continuity and uniform continuity; sequences, series; theory of Riemann integration.

**Textbooks:** *An Introduction to Analysis*, fourth edition, by William R. Wade, published by Prentice Hall.

### Course Homepage:

Homework assignments and other course information will be posted at the course webpage: <http://www.math.tamu.edu/~xie/teaching.html>

### Grading Standards:

Final grades will be determined based on:

Homework	Midterms	Final
<b>20%</b>	<b>50%</b>	<b>30%</b>

Tentative schedule for midterms (subject to change):

- October 2nd, Monday
- November 6th, Monday

Letter Grades			
A	B	C	D
$\geq 90\%$	80% - 89%	70% - 79%	60% - 69%

## Policies:

- **Make-up policies:** Students must make arrangements in advance if they expect to miss an exam or quiz. Exam absences due to recognized university-related activities, religious holidays, verifiable illness, and family/medical emergencies will be dealt with on an individual basis. In all cases of absence from exams a written excuse is required. Ignorance of the time and place of an exam will not be accepted as an excuse for absence.
- **Academic integrity:** The usual rules of academic integrity apply. In particular, the Aggie Honor Code “An Aggie does not lie, cheat or steal, or tolerate those who do” should be self-evident, see

<http://aggiehonor.tamu.edu/>

Students may, and are encouraged to, work together and discuss homework problems with each other. However, copying work done by others is an act of scholastic dishonesty and will be prosecuted to the full extent allowed by University policy.

- **Disabilities:** The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B118, or call 845-1637. For additional information visit <http://disability.tamu.edu>