Special Problems Course

Course Information

- **Instructor:** Christine Heitsch
- **Instructor Office:** Skiles 211B
- **Instructor Phone:** (404) 894 - 4758
- **Course Prefix and Number:** MATH 2106-B
- **Term:** Fall 2026

Course Description

An introduction to proofs in advanced mathematics, intended as a transition to upper division courses including Abstract Algebra I and Analysis I.

Course Learning Outcome

Students should be able to understand and prove simple mathematical statements. For instance, in analysis, students will be able to prove that a given sequence diverges to infinity. In algebra, students will be able to prove that up to isomorphism there are two distinct groups of order four.

Required Course Materials

Any edition of G. Chartrand, A. D. Polimeni, and P. Zhang. *Mathematical Proofs: A Transition to Advanced Mathematics*.

Grading Policy

Grades will be based on **exams (80%)** and **assignments (20%)** according to the standard scale: **A** (90 – 100), **B** (80 – 89), **C** (70 – 79), **D** (60 – 69), **F** (0 – 59).

Attendance Policy

Regular participation is expected. Exceptions will be accommodated only for valid, documented reasons including (1) official representation of the Institute and (2) medical or personal emergencies (as verified by the Dean of Students).

Academic Integrity Statement

Students are expected to abide by the Georgia Tech Academic Honor Code, Student Code of Conduct, and all other policies available online through the Office of Student Integrity.

Any student suspected of cheating or plagiarizing on a quiz, exam, or assignment will be reported to the Office of Student Integrity, who will investigate the incident and identify the appropriate penalty for violations.

Core IMPACTS

Not applicable

Accommodations for Students with Disabilities

Any student with learning needs that require special accommodation should have contacted the Office of Disability Services to obtain an accommodations letter and notify the instructor within the first two weeks of class.

Student Expectations

Students are expected to adhere to all course policies regarding attendance, assignments, and academic integrity. Work should be completed independently unless otherwise specified. Questions and concerns should be raised in a timely manner. Official university expectations for student conduct and responsibility apply throughout the course.