

MATH 290-001
Introduction to Advanced Mathematics
Spring 2018

Instructors: Prof. Patricia Granfield and Dr. Kathleen Alligood

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Office Hours: MW 12:30-1:30 (Dr. Alligood), Tues 10-11:30 (Prof. Granfield), or by appointment

Class Time and Location: MW 9:00-10:15, Peterson Hall Room 1113

Text: *A Transition to Advanced Mathematics (8th Edition)*, by Smith, Eggen and St. Andre

Course Topics: We will cover most of chapters 1-5.

MATH 290 is designated as a Scholarly Inquiry course within the Students as Scholars initiative (for general information on this initiative, see <http://oscar.gmu.edu/>.) MATH 290 is a structured introduction to writing mathematical proofs and, as such, is a transition course into upper level mathematics courses.

The goal of the course is to give students the ability and confidence to pose and answer mathematical questions and to write careful, correct mathematical proofs. While engaged in this process, you should become more familiar with the nature of mathematical research, how proofs are created and communicated, and with the typical working tools of the mathematical community.

Homework: This course fulfills the writing-intensive requirement for the major in Mathematics. There will be short writing assignments (approximately one per week) throughout the semester, which will involve writing mathematically and grammatically correct solutions to problems, usually involving proofs. Your grade for these assignments will be based on the correctness of your proofs and the clarity and correctness of your writing. We expect that students may discuss their solutions to the homework, but any work that is graded must be **completely** a student's own work. Assignments that are copied will result, at a minimum, in a grade of a zero on the assignment for all students involved.

Exams: Three in-class examinations will be given during the semester. Tentative dates are February 19, March 26 and April 25. **Note:** these dates are subject to change. It is the responsibility of the student to be aware of any changes.

Make-up exams: Make-up exams will be allowed only **if one of us is contacted prior to the time of the exam** and only with justification, such as serious illness.

Final Exam: Monday, May 14, 7:30—10:15 am. The exam will be cumulative.

Grades: The total possible number of points is 800, broken down as follows:

Tests (3):	100 points each
Homework/ quizzes:	300 points
Final Exam:	200 points

The grading scale will be: A: 92-100%; A-: 90-91%; B: 82-89%; B-:80-81%; C: 72-79%; C-: 70-71%; D: 60-69%; F: 59% and below. “+” grades may be given to borderline grades, as appropriate.

Important Dates:

Last day to add a class:	January 29
Last day to drop a class:	February 23
Spring break:	March 12-March 18
Selective withdrawal period:	February 26-March 30 (Maximum of three W’s as an undergraduate)
Last day of classes:	May 5

Disability Services: If you are a student with a disability and you need academic accommodations, please see one of us and contact the Office of Disability Services. All academic accommodations must be arranged through that office.

Office of Disability Services (ODS)
Student Union Building I (SUB I), Room 4205
<http://ods.gmu.edu>
Phone: 703.993.2474

Honor Code: GMU is an Honor Code university; please see the [Office for Academic Integrity](#) for a full description of the code and the honor committee process. The principle of academic integrity is taken very seriously and violations are treated gravely.