

## MATH 417: Advanced Calculus I

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**Instructor:** Henry Kvinge

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**Office Hours:** TBA

**Website:** <https://hkvinge.github.io/math417fall2018.html>

**Textbook:** Patrick M. Fitzpatrick, *Advanced Calculus, Second Edition*

**Lecture:** MWF 12:00pm-12:50pm, Engineering B 105

**Course Content:** Topology of Euclidean spaces, limits, derivatives and integrals on Euclidean spaces. Implicit functions and the implicit function theorem.

**Exams:** There will be three midterm exams (see below for dates). Makeup exams will not be offered. If you have an unavoidable conflict with an exam date, or an emergency of some sort, you must let me know as early as possible in order to make appropriate arrangements.

**Homework:** There will be (approximately) one homework assignment each week. All work must be shown in order to receive credit. Your lowest homework score will be dropped. Due to time constraints, only a few select problems will be graded. Messy or illegible homework will not be graded. Late homework is NOT accepted.

It is vitally important that you do the homework. It is impossible to learn advanced math without struggling with problems.

**Grading:** Your course grade will be based on the following:

Homework	30%
Midterm exams	45%
Final Exam (September 9th)	25%