

M391, Introduction to Mathematical Reasoning, Spring '04

Course Description: This course serves as a bridge between the lower division and upper division mathematics curricula. In particular, the course focuses on the construction of mathematical proofs (including mathematical induction) and provides a foundational view of the basic objects of abstract mathematics (sets, functions, number systems).

Texts:

- *Introduction to Mathematical Reasoning* by Peter Eccles.
- *How To Solve It* by George Polya.

Instructor information:

- Instructor: Professor Chris Judge
- Office: Rawles Hall 241
- Office hours: TBA.
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Coursework:

- *Exams:*
 - Exam 1 worth 10% of grade
 - Exam 2 worth 10% of grade
 - Exam 3 worth 10% of grade.
 - Final exam worth 20% of grade.
- *Homework:*
 - Homework assigned and collected weekly worth 40% in total.
 - In addition, you are responsible for understanding how to do the exercises at the end of each chapter in Eccles.
- *Class participation:* You are expected to attend each class and to participate fully. This includes both asking and answering questions. This is worth 10 % of your grade.
- *Grading scale:* 60-70-80-90 scale.