

## 1 Course information

<b>Instructor:</b>	Daniel Groves
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Webpage:	<a href="http://www.math.uic.edu/~groves/teaching/2017-18/215/">http://www.math.uic.edu/~groves/teaching/2017-18/215/</a>
Course meeting location:	Addams Hall 310
Meeting time:	MWF 11am
CRN:	16452
Office Hours (in SEO 727):	Mondays, 10am. Wednesdays 12pm or by appointment.

## 2 Text

Eccles, Introduction to Mathematical Reasoning. Available from the UIC Bookstore.

[I do not require you to buy this book, but you may find it useful.]

## 3 Content

The goal of this course is to learn how to create and write mathematical proofs, and to learn why one might want to do such a thing. We will introduce and study some important mathematical concepts used in advanced mathematics courses, particularly equivalence relations and mathematical induction.

## 4 Homework

There will be homework for most classes. This will be handed in, discussed, critiqued and in class, and also often be graded. Homework will be worth 20% of the final grade, with points awarded for both for completion (when not graded) and correctness.

## 5 Midterms

There will be two midterms in class, worth 20% each.

## 6 Final

The final exam will be during Finals, at a date and time to be determined, and will be worth 30% of the final score.

## 7 Grades

Along with the above components, there will be a 10% portion of the grade for class participation, since explaining proofs, discussion mathematics in groups, and critiquing others' work is a crucial part of this course.

Letter grades for the course will be assigned according to the following scale:

A – 85-100

B – 75-84

C – 65-74

D – 50-64

F – 0-49

## 8 Prerequisites

Grade of C or better in Math 181 and approval of the department.

## 9 Policies

You are encouraged to work with others on the homework. You are responsible for writing up your own solutions. Also, you should clearly mark who you collaborated with. Copying homework solutions from other students is not allowed. However, talking through problems, working out proofs and reading others' proofs to help them improve is allowed.

## 10 Academic Honesty

All UIC students are required to maintain the standards of academic integrity described in the *Guidelines Regarding Academic Integrity*.

<http://www.uic.edu/ucatalog/GR.shtml#qa>

Any violation of these standards will be handled in accordance with the [Student Disciplinary Policy](#)