

MHF 3202 Spring 2017

Contact Information

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Office Hours: 4th Period Monday and Wednesday, 5th Period Thursday

Content:

MHF 3202 is a course designed to help students transition from computational mathematics courses such as calculus and differential equations to abstract, proof-based courses like analysis and abstract algebra. Besides serving as an introduction to standard mathematical concepts and notations, the course will train students to construct logical arguments and develop a student's ability to communicate mathematical ideas.

The topics we will cover include deductive reasoning and proof strategies for logical connectives and quantifiers, applications of proof techniques to relations and functions, mathematical induction and its applications, and proofs of fundamental facts about countable and uncountable sets.

Textbook:

The book accompanying this course is *How to Solve it: a Structured Approach, 2nd edition*, by Velleman. The course will closely follow Velleman's text through all seven chapters (with some rearrangement of the material).

Attendance:

Students are expected to attend class regularly, be prepared to answer questions on the reading, and participate in class discussions and group work. If you miss a lecture, you are responsible for getting notes from the class and learning any material covered.

Homework:

There will be eleven (11) homework sets given throughout the semester, each worth 10 points. The lowest homework grade will be dropped when computing your final grade. Assignments will be collected at the beginning of class. Late homework will not be accepted.

Exams:

There will be four exams held during class on the following dates:

- Friday, February 3
- Friday, March 3
- Wednesday, March 29
- Wednesday, April 19 (Last day of classes.)

Exams must be taken at these times except under exceptional circumstances.

Grading:

There will be 500 points available in the course: 100 for the 10 homework assignments and 100 for each of the 4 exams.

Final grades will be determined as follows:

A	92-100
A-	90-91
B+	88-89
B	82-87
B-	80-81
C+	78-79
C	72-77
C-	70-71
D+	68-69
D	62-67
D-	60-61
E	0-59

Disability Resource Center:

Students with learning disabilities requesting accommodations must register with the Dean of Students Office and then bring the appropriate documentation to me. This should be done as early as possible so we can make arrangements. Accommodations will not be granted without documentation.

Course Evaluations: Students are expected to provide feedback on the quality of instruction in this course based on 10 criteria. These evaluations are conducted online at <https://evaluations.ufl.edu>. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at <https://evaluations.ufl.edu/results>.

Academic Honesty:

Remember that you committed yourself to academic honesty when you registered at the University of Florida by agreeing to the Honor Pledge: We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment."

All students are required to abide by the Academic Honesty Guidelines which have been accepted by the University. The academic community of students and faculty at the University of Florida strives to develop, sustain and protect an environment of honesty, trust

and respect. Students are expected to pursue knowledge with integrity. Exhibiting honesty in academic pursuits and reporting violations of the Academic Honesty Guidelines will encourage others to act with integrity. Violations of the Academic Honesty Guidelines shall result in judicial action and a student being subject to the sanctions in paragraph XIV of the Student Code of Conduct.

The Mathematics Department expects you to follow the Student Honor Code. The Student Honor Court adjudicates matters of violation of academic honesty. In addition, remember that lectures may not be recorded without prior permission from the lecturer and may not be used for any commercial purpose.