



SPRING 2020, SETS AND LOGIC

Registration Information

Course: MHF3202

Section #: 3255

5 Digit Class #: 18100

Meeting time and place: M,W,F | Period 6 (12:50 PM – 1:40 PM) FLI 101

Instructor: Louis Block

Office Hours (in Little 478)

Monday period 7 and Wednesday periods 7 and 8.

Description and Goals

This course is an introduction to formal mathematics. The emphasis in this course is not on learning facts, but rather on learning how to write clear and rigorous proofs. The goal is to understand and write about mathematical material in a formal mathematical way. In addition to attending class, you are expected to carefully read the appropriate sections in the text, and spend time working problems. You are encouraged to get together with other students to discuss problems. Of course, for the problems which you turn in for a grade, you must write up your work individually, and you may not copy from another student.

Text

The text for this section is the online book, “Book of Proof” (third edition) by Richard Hammack. This may be downloaded for free. Here is a link:

<https://www.people.vcu.edu/~rhammack/BookOfProof/>

Additional Reference

Daniel J. Velleman, How to prove it, a structured approach, second edition, Cambridge University Press, New York, NY 10013.

Reading and Exercises

We will cover Chapters 1, 2, 4, 5, 6, 7, 8, 9, 10, 11, 12, and 14 of the text as time permits. Assigned reading and exercises from the text will be added here as the course progresses. Note that there are solutions to all odd numbered exercises in the back of the text. But it is important for you to try to do the exercises yourself before looking at the answer in the text. Also, we will go over many of the even numbered exercises in

class. Again, it is important for you to try to do the exercises yourself before we go over them in class.

Approximate Schedule: Chapter 1: 3 days, Chapter 2 :6 days Chapter 4: 3 days, Chapter 5: 3 days, Chapter 6: 2 days, Chapter 7: 2 days, Chapter 8: 2 days, Chapter 9: 1 day, Chapter 10: 2 days, Chapter 11: 4 days, Chapter 12, 6 days, Chapter 14: 4 days.

January 6, 8, 10: Read Chapter 1. Exercises: Section 1.1, Problems 1 – 38, Sections 1.2, Problems 1 – 8, Section 1.3, Problems 1 – 16, Section 1.4, Problems 1 – 12, Section 1.5, Problems 1 – 4, Section 1.7, Problems 1 – 4, Section 1.8, Problems 1 – 10. Quiz 1 will be on these problems.

Instructor Notes and Other Material

[Properties-of-real-numbers](#)

[sets-and-logic-notes-1-3-2020](#)

Grades

Grades will be based on two exams given in class during the semester, five quizzes, three problem sets, and a cumulative final exam. Each of the two exams during the semester will be worth 40 points. The four best quizzes will be worth 10 points each. No make-ups will be given for missed quizzes. The problem sets will be worth 10 points each. The final exam will be worth 50 points. So there are 200 possible points. The final exam will be given during the regular final exam period for this section:

Final Exam: 4/29/2020 @ 12:30 PM – 2:30 PM

Grades will be assigned according to the following:

A: 180-200	A-: 175-179	B+: 170-174	B: 160-169	B-: 155-159
C+: 150-154	C: 140-149	C-: 135-139	D+: 130-134	D: 120-129

Tentative Schedule for exams, quizzes, and problem sets:

January 15: Quiz 1.

January 24 Quiz 2.

January 29: Quiz 3.

February 7: Quiz 4.

February 19: Exam 1.

February 28: Quiz 5.

March 18: Problem Set 1 due.

March 25: Problem Set 2 due.

April 3: Exam 2.

April 15: Problem Set 3 due.

April 29 @ 12:30 PM – 2:30 PM :Final Exam

Course Policies:

Closed-book policy: No use of calculators, or books will be allowed during any in-class exams.

Policy related to make-up exams: Written medical documentation is required for make-up exams.

Policy on class attendance: Daily attendance is required as consistent with university policies that can be found in the online catalog at:

<https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>.

Additional Information and Links:

Grades: Grading will be in accord with the UF policy stated at <https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>.

Honor Code: “UF students are bound by The Honor Pledge which states, “We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor 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.” The [Honor Code](#) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor in this class.”

Class Attendance: “Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found at:

<https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>.”

Accommodations for Students with Disabilities: “Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, <https://www.dso.ufl.edu/drc/>) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.”

Online Evaluations: “Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at <https://gatorevals.aa.ufl.edu/students/>. Students will be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via <https://ufl.bluera.com/ufl/>. Summaries of course evaluation results are available to students at <https://gatorevals.aa.ufl.edu/public-results/>.”

Contact information for the Counseling and Wellness Center:

<http://www.counseling.ufl.edu/cwc/Default.aspx>, 392-1575; and the University Police Department: 392-1111 or 9-1-1 for emergencies.



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