



Sets and Logic, Spring 2019

Time, Location, and Section Number

MWF PERIOD 7, LITTLE 127, Section 8768.

Office Hours (in 478 Little Hall)

Monday period 6, Tuesday period 6, and Friday period 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. Some of the material covered in this course may be familiar to you. The goal is to understand and write about this 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: Daniel J. Velleman, How to prove it, a structured approach, second edition, Cambridge University Press, New York, NY 10013.

Grades

Grades will be based on two exams given in class during the semester, homework problems, and a cumulative final exam. Each of the two exams during the semester will be worth 40 points. There will be seven graded problem sets 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.

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

Notes and other material.

[sets-and-logic-notes-items1-23](#)

[section 1.1 exercise 7a](#)

Laws of Logic

Properties-of-real-numbers

Assignments.

The assignments will be added here, as the course progresses. This will include reading, problem sets to turn in for a grade, and additional problems. I suggest that you do the reading part of each assignment in advance. Some problem assignments must be turned in for a grade. These will be indicated below.

Students are expected to also do the additional problems listed as part of the preparation for the exams.

January 7. Read the Introduction Pages 1 – 6, and Section 1.1, Pages 8 – 13. **No problems to turn in.** Additional problems: # 1, 5, 6, 7 (all parts of each) on pages 13 – 14.

January 9. Read Section 1.2. **Problems to turn in # 4, 6, 8, 12, 17 (all parts of each) on pages 24 – 26. Due January 16. This is problem set 1.** Additional problems # 1, 5, 7, 9, 11, 14, 16, 18 (all parts of each).

January 11. Read sections 1.3 and 1.4. No problems to turn in. Additional problems: #6 (all parts) on page 34 and # 4, 5, 9 (all parts of each) on page 42.

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.](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 feedback on the quality of instruction in this course by completing online evaluations 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/>.”

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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