

## **Sets and Logic**

MHF 3202, Section: 09EH

**Class Periods:** MWF 7, 1:55—2:45

**Location:** Little 233

**Academic Term:** Fall 2021

### **Instructor:**

Robin Tucker-Drob

[r.tuckerdrob@ufl.edu](mailto:r.tuckerdrob@ufl.edu)

Office Hours: **Wednesday, 12:30 - 1:30pm**, either over Zoom or in Little 416 (or by appointment)

Zoom info for office hours:

Meeting ID: 928 6898 5901

Passcode: 924913

### **Course Description**

Examples of sets, operations on sets, set algebra, Venn diagrams, truth tables, tautologies, applications to mathematical arguments and mathematical induction. Taking one, but not both, of MAS 3300 or MHF 3202 is required of mathematics majors. MHF 3202 can also be very useful for prospective and in-service secondary and middle school teachers. 3 credits

### **Course Pre-Requisites / Co-Requisites**

A UF math course at the 2000 level or above with a minimum grade of C.

### **Course Objectives**

Students who successfully complete the course will be able to read, write and present theorems and proofs.

### **Required Textbooks and Software**

Book of Proof, by Richard Hammack

### **Course Schedule (Tentative)**

Week 1, August 23--27:	Chapter 1.1--1.4
Week 2, August 30—Sep. 4:	Chapter 1.5—1.9
Week 3, September 8--10:	Chapter 2.1—2.4
Week 4, September 13--17:	Chapter 2.5--2.9
Week 5, September 20--24:	Chapter 2.10—2.12, Exam 1
Week 6, September 27--Oct. 1:	Chapter 4.1—4.5, 5.1—5.3
Week 7, October 4—6	Chapter 6.1—6.3
Week 8, October 11--15:	Chapter 7.1—7.4, 8.1—8.4
Week 9, October 18--22:	Chapter 9.1—9.3, Chapter 10.1—10.2
Week 10, October 25--29:	Chapter 10.3-10.5, Exam 2
Week 11, November 1--5:	Chapter 11.1-11.6
Week 12, November 8--12:	Chapter 12.1—12.3
Week 13, November 15--19:	Chapter 12.4—12.6
Week 14, November 23:	Chapter 14.1
Week 15, Nov. 30-Dec. 3:	Chapter 14.2—14.4
Week 16, December 6--8:	Review
December 15:	Final Exam, 10am—12, Little 233

### **Attendance Policy, Class Expectations, and Make-Up Policy**

University policy regarding class attendance, make-up exams, assignments, and other work can be found at <https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>

### ***Evaluation of Grades***

<b>Assignment</b>	<b>Percentage of Final Grade</b>
Homework (about 8)	30%
Exam 1	20%
Exam 2	20%
Final Exam	30%
Total	100%

### **Final Exam is a Make-Up**

### ***Grading Policy***

<b>Percent</b>	<b>Grade</b>	<b>Grade Points</b>
90.0 - 100.0	A	4.00
85.0 - 89.9	A-	3.67
80.0 - 84.9	B+	3.33
75.0 - 79.9	B	3.00
71.0 - 74.9	B-	2.67
67.0 - 70.9	C+	2.33
60.0 - 66.9	C	2.00
57.0 - 59.9	C-	1.67
54.0 - 56.9	D+	1.33
51.0 - 53.9	D	1.00
48.0 - 50.9	D-	0.67
0 - 49.9	E	0.00

More information on UF grading policy may be found at:  
<https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>

### ***Students Requiring Accommodations***

Students with disabilities who experience learning barriers and would like to request academic accommodations should connect with the disability Resource Center by visiting <https://disability.ufl.edu/students/get-started/>. It is important for students to share their accommodation letter with their instructor and discuss their access needs, as early as possible in the semester.

### ***Course Evaluation***

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### ***University Honesty Policy***

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 (<https://www.dso.ufl.edu/sccr/process/student-conduct-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 or TAs in this class.

### ***Academic Integrity:***

All work that you hand in must be written by you and in your own words. You may discuss homework with others, but if you collaborate or receive help on any homework problem(s) then you must indicate on your homework precisely who helped you and to what extent. If your work uses information obtained from any sources other than class notes, the course textbook, or your own ingenuity, then these sources must be properly cited and you must indicate exactly which information comes from which source. You may not copy work done by others, either in or out of class; copying work is an act of scholastic dishonesty and any student who copies work will be prosecuted to the full extent allowed by University policy.

### ***Software Use***

All faculty, staff, and students of the University are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against University policies and rules, disciplinary action will be taken as appropriate. We, the members of the University of Florida community, pledge to uphold ourselves and our peers to the highest standards of honesty and integrity.

### ***Student Privacy***

There are federal laws protecting your privacy with regards to grades earned in courses and on individual assignments.

For more information, please see: <http://registrar.ufl.edu/catalog0910/policies/regulationferpa.html>

### ***Campus Resources:***

#### ***Health and Wellness***

##### **U Matter, We Care:**

If you or a friend is in distress, please contact [umatter@ufl.edu](mailto:umatter@ufl.edu) or 352 392-1575 so that a team member can reach out to the student.

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

##### **Sexual Assault Recovery Services (SARS)**

Student Health Care Center, 392-1161.

**University Police Department** at 392-1111 (or 9-1-1 for emergencies), or <http://www.police.ufl.edu/>.

#### ***Academic Resources***

**E-learning technical support**, 352-392-4357 (select option 2) or e-mail to [Learning-support@ufl.edu](mailto:Learning-support@ufl.edu).  
<https://lss.at.ufl.edu/help.shtml>.

**Career Resource Center**, Reitz Union, 392-1601. Career assistance and counseling. <https://www.crc.ufl.edu/>.

**Library Support**, <http://cms.uflib.ufl.edu/ask>. Various ways to receive assistance with respect to using the libraries or finding resources.

**Teaching Center**, Broward Hall, 392-2010 or 392-6420. General study skills and tutoring.  
<https://teachingcenter.ufl.edu/>.

**Writing Studio, 302 Tigert Hall, 846-1138.** Help brainstorming, formatting, and writing papers.  
<https://writing.ufl.edu/writing-studio/>.

**Student Complaints Campus:** [https://www.dso.ufl.edu/documents/UF\\_Complaints\\_policy.pdf](https://www.dso.ufl.edu/documents/UF_Complaints_policy.pdf).

**On-Line Students Complaints:** <http://www.distance.ufl.edu/student-complaint-process>.