

# COURSE SYLLABUS – MAD 2104

**TITLE:** Honors Discrete Mathematics

**CREDIT HOURS:** 3

**TEXT:** *Language, Proof and Logic*, Dave Barker-Plummer, Jon Barwise and John Etchemendy, CSLI Publications

**PROFESSOR:** Dr. Warren Wm. McGovern

**OFFICE & PHONE:** HC 101 & (561)331-2128

**OFFICE HOURS:** by email or by zoom\webex meeting appointment



**Prerequisite:** MAC 1105 or permission of instructor

**E-mail:** [warren.mcgovern@fau.edu](mailto:warren.mcgovern@fau.edu)

**HOME PAGE:** <http://home.fau.edu/wmcgove1/web/>

**CONTENT and OBJECTIVES:** A proof-oriented approach to and applications of propositional logic, sets, functions, relations, combinatorics, graphs and trees

**TEXT:** The text can be found at <https://www.gradegrinder.net/>. I suggest you get a paperless copy. You do need to pay and register for the software. Please let me know if you need to place an order with the bookstore. If you do, do not buy a used copy. You will need a new version that has a unique registration id.

**EVALUATION:** The goal of the class is for the students to do all of the assigned problems from the LPL book and submit them to the Grade Grinder. (Don't forget to submit to instructor once you have completed and received feedback on a given assignment.) The list of HW problems can be found at <http://home.fau.edu/wmcgove1/web/Courses/MAD2104/HWMAD2104F20.html>. Please only do the HWs that are to be turned in via the grade-grinder. If the problem has only a pencil next to it, I do not expect you to submit it. However, please try these problems and make sure you understand them. Some problems have both an arrow  and a pencil . These problems are asking you to submit something while informally doing something else. I expect you to turn in the arrow part to the grade grinder. Please be aware that there is a comment section with grade grinder. However, I do not look at these since there is no distinction between these and the regular emails that I receive from the grade grinder. If you have a comment on the problem please send me an email using your FAU address.

The Grade Grinder HW will be worth 90% of the final grade. There are approximately 235 gradegrinder HWs. The other 10% will be determined by Homework on graph theory and sets and functions. Problems must be completed by the deadline date. Late homework will only receive 50% credit.

Regarding the gradegrinder, I will record the completion percentage of problems turned in on time that are correct. Incorrect problems will not count be counted as completed. This completion percentage will count towards 90% of your final grade.

Final Grades are based on the following scale.

A	A-	B+	B	B-	C+	C	C-	D+	D	D-	F
93-100	90-92	87-89	83-86	80-82	77-79	73-76	70-72	67-69	63-66	60-62	0 – 59

If a student instead prefers to take an exam in lieu of some homework, then the student needs to notify the professor. An exam will be worth 20% of the final grade, in which case the gradegrinder HW will be deducted that amount. If a student takes two exams then the gradegrinder HW will be deducted 40% of the final grade. This still leaves HW on graph theory and sets and functions as 10%.

Test 1 will cover Chapters 1-7 LPL. This must be completed by March 5th.

Test 2 will cover Chapters 8-13 LPL. This must be completed by April 23rd.

In the case a student elects to take an exam, the student will be sent the exam via email, and have two hours to complete it and then scan it, and upload it to canvas. The exam will be proctored. Click here for student guidelines

[https://fau.edu/canvas/Files/lockdownBrowser\\_student.pdf](https://fau.edu/canvas/Files/lockdownBrowser_student.pdf)

The student and instructor will also connect via a zoom meeting. The student is required to have a printer and a scanner.

**INCOMPLETES.** As instructor I am finding that my past actions of giving incompletes to students is not helping students learn the material. Therefore, please do not plan on requesting an incomplete in this course to give you more time. If at the end of the semester you are not satisfied with your gradegrinder completion percentage and you feel you need more time to finish the work please be sure to let me know. This is solely up to my discretion. At the very least an incomplete due to low completion percentage will be ensure a drop of 10% of the final grade.

Here is the list of deadlines for the chapters and the gradegrinder. Notice that Chapter 4 and 5 are due at the same time. Also, Chapters 6 and 7 are due at the same time, and Chapters 12 and 13 are due at the same time.

<b>Chapter</b>	<b>Deadline for HW</b>	
Chapter 1	January 15th at 11:59pm	6 days for 11 problems
Chapter 2	January 23rd at 11:59pm	8 days for 20 problems
Chapter 3	January 30 <sup>th</sup> at 11:59pm	7 days for 22 problems
Chapter 4	February 9th at 11:59pm	10 days for 23 problems
Chapter 5	February 9th at 11:59pm	10 days for 1 problem
Chapter 6	March 2nd at 11:59pm	21 days for 39 problems
Chapter 7	March 2nd at 11:59pm	21 days for 20 problems
<b>TEST 1 (optional)</b>	Must be completed Prior to March 5th	
Chapter 8	March 16th at 11:59pm	14 days for 33 problems
Chapter 9	March 23rd at 11:59pm	7 days for 18 problems
Chapter 10	March 28th at 11:59pm	5 days for 10 problems
Chapter 12	April 19th at 11:59pm	22 days for 19 problems
Chapter 13	April 19th at 11:59pm	22 days for 46 problems
<b>TEST 2 (optional)</b>	Must be completed prior to April 23rd	

**COLLABORATION AND THE HONOR CODE.** I expect you to abide by the Honors College Academic Honor Code. It is available at <http://www.fau.edu/honors/academics/honor-code.php>. I assume that you're here to learn. If you talk to each other, you will learn from each other, perhaps more than you will learn from me. I encourage you to form study groups. Try the homework yourself, and then get together with a study group to go over questions, and to study for quizzes and tests. You will learn a great deal from articulating your questions and explaining material to your peers. Collaboration on homework and in class worksheets is encouraged, but you must be sure you understand and can complete problems on your own, as collaboration on tests, quizzes and the final exam is forbidden.

**Video, Audio or Other Recordings of class is forbidden without express permission of the instructor.**

**Classroom Etiquette Policy** In order to enhance and maintain a productive atmosphere for education, personal communication devices, such as cellular telephones and pagers, are to be disabled in class sessions.

### **Policy on Accommodations**

In compliance with the Americans with Disabilities Act Amendments Act (ADAAA), students who require reasonable accommodations due to a disability to properly execute coursework must register with Student Accessibility Services (SAS) and follow all SAS procedures. SAS has offices across three of FAU's campuses -- Boca Raton, SU 131 (561-297-3880); in Davie, LA 131 (954-236-1222); in Jupiter and all Northern Campuses, SR 111F (561-799-8585). Disability services are available for students on all campuses. For more information, please visit SAS website at [www.fau.edu/sas/](http://www.fau.edu/sas/).

### **Counseling and Psychological Services (CAPS) Center**

*Life as a university student can be challenging physically, mentally and emotionally. Students who find stress negatively affecting their ability to achieve academic or personal goals may wish to consider utilizing FAU's Counseling and Psychological Services (CAPS) Center. CAPS provides FAU students a range of services – individual counseling, support meetings, and psychiatric services, to name a few – offered to help improve and maintain emotional well-being. For more information, go to <http://www.fau.edu/counseling/>*

### **Academic Integrity Policy**

Students at Florida Atlantic University are expected to maintain the highest ethical standards. Academic dishonesty is considered a serious breach of these ethical standards, because it interferes with the university mission to provide a high quality education in which no student enjoys an unfair advantage over any other. Academic dishonesty is also destructive of the university community, which is grounded in a system of mutual trust and places high value on personal integrity and individual responsibility. Harsh penalties are associated with academic dishonesty. For more information, see [University Regulation 4.001](#).

The WHC Academic Honors Code is found here: <http://www.fau.edu/honors/academics/honor-code.php>.

### **Plagiarism**

Plagiarism is the deliberate use and appropriation of another's work without identifying the source and trying to pass off such work as one's own. Any student who fails to give full credit for ideas or materials taken from another has plagiarized. This includes all discussion board posts, journal entries, wikis, and other written and oral presentation assignments. Plagiarism is unacceptable in the University community. Academic work must be an original work of your own thought, research, or self-expression. When students borrow ideas, wording, or organization from another source, they must acknowledge that fact in an appropriate manner. If in doubt, cite your source.

### **COVID-19 Statement**

*All students in face-to-face classes are required to wear masks during class, and students must sanitize their own workstations upon entering the classroom. Taking these measures supports the safety and protection of the FAU community. Students who do not adhere to these rules will be asked to leave the classroom and/or be removed from the course. Students experiencing flu-like symptoms (fever, cough, shortness of breath), or students who have come in contact with an infected person should immediately contact FAU Student Health Services (561-297-3512).*