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
Supplemental Material

PROFESSOR: Dr. Warren Wm. McGovern

OFFICE & PHONE: HC 101 & 6-8028

OFFICE HOURS: by email or by appointment

Prerequisite: MAC 1105 or permission of instructor

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HOMEPAGE: 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. I will also supply supplemental material for the students to learn about graphs and trees, and induction.

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. There will be an exam halfway through the course covering chapters 1 through 7, and then another at the end of the semester covering chapters 9, 10, 12, 13. The students are expected to do all of the assigned HW. (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/HWMAD2104S20.html
Please only do the HWs that are to be turned in via the grade-grinder. If the problem has a pencil next to it I do not expect you to submit it to. However, please try these problems and make sure you understand them.

Once the students get through chapter 13 of the LPL text, the student will be supplied with some notes on induction and graph theory.

Throughout the course, the student will have opportunities to gain and lose points; losing points means a student might earn negative points. The most common examples of gaining points (but not limited to) are through the homework, Exam 1, Exam 2, and Exam 3. At the end

of the semester if the student's (net) point total is greater than or equal to 90% of the total possible number of points, then the student will have earned an A. The rest of the grades are as follows 80%-90% B, 70%-80% C, 60%-70% D, below 60% F.

The HW will be worth 40% of the final grade. Exams 1 and 2 will each be worth 25% of the final grade, and Exam 3 will be worth 10%.

Exam 1 will cover Chapters 1-7 LPL.
Exam 2 will cover Chapter 8-13 LPL.
Exam 3 will cover the supplemental material on graph theory.

The exams will be proctored and will be taken via webex or some other proctored method that will ensure the integrity of the exam.

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 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/

CODE OF ACADEMIC INTEGRITY POLICY STATEMENT: 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 and the WHC Academic Honor Code at http://www.fau.edu/honors/academics/honor-code.php.

Collaboration and the Honor Code: You are expected to adhere to the Honor Code (see HC Honor Code and FAU Honor Code).