

SYLLABUS

Discrete Structures by JiYoon Jung
MTH 220 - Section 201 - CRN 4056 - Credits 3

Spring 2016

Professor: Dr. JiYoon Jung

Email: jungj@marshall.edu

Please include your name and subject line MTH 220 in your email.

Office: Smith Hall 742D (Phone: 304-696-3285)

Office Hours: TR 11:00 am - 11:50 am, R 01:00 pm - 01:50 pm, or by appointment.

Class: TR 2:00 pm - 3:15 pm (Smith Hall 336)

Text: Applied Discrete Structures by Doerr and Levasseur

Can be accessed at <http://faculty.uml.edu/klevasseur/ads2/>

Course Description: Discrete mathematics is the mathematics of finite sets. You will be introduced to logic, set theory, functions, algorithms, basic counting techniques, basic proof techniques, and elementary graph theory.

Prerequisites: ACT Math 27, or SAT Math 610, or MTH132, or IST131, or MTH229

Objectives of Course: **1.** Students will be able to perform basic set-theoretic operations. **2.** Students will be able to translate English statements into logical statements. **3.** Students will be able to write simple proofs. **4.** Students will be able to solve basic counting problems using combinations and permutations. **5.** Students will be able to model problems using appropriate graphs.

Calculator Requirement: You may use a standard scientific calculator or graphing calculator for this course. Any device that can access the internet or cell service is not permitted to be used as a calculator on any quiz or test.

MUOnline: Announcements, assignments, review sheets, grades, homework lists, and other course materials will be posted regularly on MUOnline. You are responsible for checking MUOnline regularly. Use homework problems as study guides for tests and quizzes.

There are good places when you do your homework or prepare for exams.

- The Math FREE Tutoring Lab (Smith Music Hall 115): No appointment is necessary.
- My office (Smith Hall 742D): You are very welcome!

Exam Schedules: There will be five exams during the semester including the final exam. Topics may possibly differ from what is indicated below. Come to class regularly and you won't be lost.

- Exam 1: 2:00 pm - 3:15 pm, Thursday Jan 28; (Chapter 1 and 2)
- Exam 2: 2:00 pm - 3:15 pm, Thursday Feb 18; (Chapter 3 and Basic Proof)
- Exam 3: 2:00 pm - 3:15 pm, Thursday Mar 10; (Chapter 5, 6, and 8)
- Exam 4: 2:00 pm - 3:15 pm, Thursday Apr 7; (Chapter 9 and 10)
- Final Exam: 12:45 pm - 2:45 pm, Thursday May 5; (Chapter 11, 13, and Comprehensive).

Make-up test, Attendance, Homework, and Quiz Policy: Students are expected to attend each class. **Unexcused absences from Four or more classes will result in an F.** There will be no credit for the daily quiz you missed unless you have an excused absence. To obtain an excused absence, please go to the Dean of Students Office in the MSC. **Students must notify the instructor by phone or e-mail prior to an exam if they cannot take a scheduled exam.** Students must present a serious reason for missing any exam. Makeup exams will be given to students outside of class time at the convenience of the instructor. Daily Quizzes will focus on the topics discussed in class. Homework will be assigned on MUOnline after each lecture session. You can bring questions about homework problems to class, office hours, or the tutoring lab.

Course policies: Cheating or plagiarism is a serious offense and will not be tolerated. It will be thoroughly investigated, and might lead to failure in the course or even to expulsion from the university. If you are late to class, if you leave class early, if you are disruptive, if you are sleeping, reading the newspaper, working on other homework, surfing the internet or for any other reason are not actively engaged in activities related to math class, you will not receive credit for participating in class that day. I expect that you will not only attend class, but that you will participate in class. If you do not respect yourself, other students, or the instructor during class, you may be asked to leave class.

Grading Policy:

You will be able to obtain a maximum of 1000 points in this class, divided as follows:

- Four Exams: 150 each
- Final Exam: 200
- Participation and Quizzes: 200

Your final course grade will be calculated as follows:

- A: 900 - 1000
- B: 800 - 899
- C: 700 - 799
- D: 600 - 699
- F: 0 - 599