

Marshall University Syllabus
MTH 220: Discrete Structures

Course Title/Number	MTH 220 (CRN: 3948) <i>Discrete Structures</i>
Semester/Year	Spring 2018
Days/Time	MWF 8 - 8:50 AM
Location	SH 513
Instructor	Dr. Elizabeth Niese
Office	Smith Hall 714
Phone	(304) 696-3609
Email	niese@marshall.edu Please include your name and subject line MTH 220 in your email.
Office/Hours	Tuesdays 2 - 3 PM, Wednesdays 9 - 11 AM, Thursdays 11 AM - 12 PM, Fridays 1 - 2 PM, other times by appointment. To make an appointment, please email 24 hours in advance when possible.
University Policies	By enrolling in this course, you agree to the University Policies listed below. Please read the full text of each policy by going to http://www.marshall.edu/academic-affairs and clicking on "Marshall University Policies. Or, you can access the policies directly by going to http://www.marshall.edu/academic-affairs/?page_id=802 Academic Dishonesty/ Excused Absence Policy for Undergraduates/ Computing Services Acceptable Use/ Inclement Weather/ Dead Week/ Students with Disabilities/ Academic Forgiveness/ Academic Probation and Suspension/ Academic Rights and Responsibilities of Students/ Affirmative Action/ Sexual Harassment

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 MTH132 or MTH229 or IST131

Course Student Learning Outcomes:	How students will practice each outcome:	How student achievement of each outcome will be assessed
Students will be able to perform basic set-theoretic operations	Homework, Quizzes, Classwork	Exams
Students will be able to translate English statements into logical statements	Homework, Quizzes, Classwork	Exams
Students will be able to write simple proofs	Homework, Quizzes, Classwork	Exams
Students will be able to solve basic counting problems using combinations and permutations	Homework, Quizzes, Classwork	Exams
Students will be able to model problems using appropriate graphs	Homework, Quizzes, Classwork	Exams

Required Course Materials:

- **Textbook:** *Applied Discrete Structures* by Doerr and Levasseur. Can be accessed at <http://mupfc.marshall.edu/~niese/>
- **MUOnline:** Assignments, announcements, and other course materials will be posted regularly on MUOnline.
- **Calculator:** 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.

Course Requirements:

- **Homework:** You will complete 1-2 written homework assignments each week. These assignments should reflect your understanding of the course material.
- **Quizzes/Classwork:** There will be occasional short quizzes or graded classwork. Quizzes will be announced at least one class period prior. Make-up quizzes and classwork are not given except in the event of a University-approved absence.
- **Exams:** There will be three in-class exams, each comprising 15% of your final course grade. Tentative exam dates are February 2, March 7, and April 13. Make-up exams are only given in the event of a University-approved absence.
- **Comprehensive Final Exam:** You will have a comprehensive final exam on: **Monday, April 30 from 8:00 am - 10:00 am**. Mark this on your calendar today! Make-up exams are only given in the event of a University-approved absence.

Grading Policy:

Your final course grade will be calculated as follows:

Homework/Quizzes/Classwork:	35%
Exams:	45% (15% per exam)
Comprehensive Final Exam:	20%

$\geq 90\%$	A
80% – 89%	B
70% – 79%	C
60% – 69%	D
$< 60\%$	F

Attendance Policy:

Attendance at all scheduled class times is expected. Make-up tests will only be given in the event of an excused absence. If you know in advance that you will be absent, please make arrangements to take the test early if possible. If you are ill and cannot make it to class, it is courteous to send me an email notifying me. You are responsible for all material missed and should try to get a copy of a classmate's notes.

Policy for Students with Disabilities:

Marshall University is committed to equal opportunity education for all students, including those with physical, learning and psychological disabilities. University policy states that it is the responsibility of students with disabilities to contact the Office of Disability Services (ODS) in Prichard Hall 117 (304.696.2467) to provide documentation of their disability. Following this, the ODS Coordinator will send a letter to each of the student's instructors outlining the academic accommodation he/she will need to ensure equality in classroom experience, outside assignment, testing, and grading. The instructor and student will meet to discuss how the accommodation(s) requested will be provided. For more information, access the website for the Office of Disabled Student Services: <http://www.marshall.edu/disabled>.