

**MTH 220 - 201**  
**DISCRETE STRUCTURES**  
**Spring 2012**

INSTRUCTOR: Dr. Elizabeth Niese  
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**Office Hours:** MWF 10-10:50 am, MW 3-4 pm

**Textbook:** *Discrete Mathematical Structures, Sixth Ed.* by Kolman, Busby, and Ross.

**Calculator Requirement:** You may use a basic scientific calculator for this class. Graphing calculators will not be permitted on exams.

**Prerequisites:** To take this course you must meet at least one of the following:

- A score of 27 or higher on the math section of the ACT.
- A score of 610 or higher on the math section of the SAT.
- Successful completion of MTH 127, 130, 132, 229, or IST 131.

**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.

**Course Objectives:** Students who complete MTH 220 will:

- be able to perform basic set-theoretic operations
- be able to translate English statements into logical statements
- be able to write simple proofs
- be able to solve basic counting problems using combinations and permutations
- be able to model problems using appropriate graphs

**Homework:** Homework will be assigned and graded weekly. Homework is due at *the beginning of class* on the day it is due. If you will not be in class, you may submit your homework as a PDF attachment by email *by the beginning of class* or have a classmate turn it in. Late homework will not be accepted.

**Quizzes/Classwork:** There will be occasional quizzes given in class. Quizzes will be announced at least one class period in advance. There will also be some group assignments given during class time to enhance your understanding of certain topics. There are no make-up quizzes or classwork except in the event of an excused absence (see policy below).

**Tests:** There will be three in-class tests and a comprehensive final exam. Make-up tests will not be given. In the event of an excused absence, the final exam score will replace the missing exam.

### Grading Policy:

Homework - 20%	90-100% = A
Quizzes/classwork - 15%	80-89% = B
Tests - 15% each (45% total)	70-79% = C
Final Exam - 20%	60-69% =D
	<59% = F

### Important Dates:

Jan. 13 - Last day to add classes

Jan. 16 - No class (MLK day)

March 16 - Last day to drop

March 18-25 - SPRING BREAK

April 4 - No class (Assessment day)

April 27 - Last day of class

**May 1 - 10:15 am - 12:15 pm FINAL EXAM**

**University Computing Services Acceptable Use Policy:** All students are responsible for knowing this policy, which can be found on the web at <http://www.marshall.edu/ucs/CS/acceptuse.asp>.

**Academic Dishonesty Policy:** All students should be familiar with the university's policy concerning academic dishonesty. This policy can be found on pp. 66-68 of the undergraduate catalog [http://www.marshall.edu/catalog/undergraduate/11\\_published.pdf](http://www.marshall.edu/catalog/undergraduate/11_published.pdf).

**Policy for Students with Disabilities:** Marshall University is committed to equal opportunity in 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 Disabled Student Services (DSS) in Prichard Hall 117, phone 304-696-2271 to provide documentation of their disability. Following this, the DSS 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 experiences, outside assignment, testing and grading. The instructor and student will meet to discuss how the accommodation(s) requested will be provided. For more information, please visit <http://www.marshall.edu/disabled> or contact Disabled Student Services Office at Prichard Hall 117, phone 304-696-2271.

**Affirmative Action Policy:** This course will follow Marshall University's policy on Affirmative Action, which can be found on p. 63 of the 2010-2011 undergraduate catalog [http://www.marshall.edu/catalog/undergraduate/ug\\_10-11\\_published.pdf](http://www.marshall.edu/catalog/undergraduate/ug_10-11_published.pdf). Specifically, all students will be afforded equal opportunity without regard to race, color, sex, religion, age, disability, national origin, or sexual orientation.

**Inclement Weather Policy:** Students can find information concerning Marshall's policy regarding inclement weather on pp. 64-65 of the 2010-2011 undergraduate online catalog [http://www.marshall.edu/catalog/undergraduate/11\\_published.pdf](http://www.marshall.edu/catalog/undergraduate/11_published.pdf).