

MONTGOMERY COLLEGE
Rockville Campus
Engineering, Physical and Computer Sciences Department
CMSC207 Discrete Structures

Instructor Information

Name:	Office Location:
Mailbox Location:	Office Phone:
email:	Office Hours: by Appointment via email

Course Information

Semester:	Course CRN:
Class starts:	Class ends:
Midterm Exam 1 Due Midterm Exam 2 Due	Final Exam:
Check MyMC class schedule for your Specific Deadline to Drop without a grade W or to change from audit to credit or from credit to audit.	Check MyMC class schedule for your Specific Deadline to drop a class with a W grade.
Online via Blackboard	Check MyMC class schedule for your Specific Refund Deadlines.

Course Description

An introduction to discrete structures as they relate to computer science. The course will stress computer science applications and will include relations, functions and algorithms, Naive Set Theory, combinatorics, logic, and mathematical induction.

PREREQUISITE(S): ENGL 101/ENGL 101A, *or appropriate score on English assessment test, and a grade of C or higher in MATH 182. Four hours each week. Formerly CS 256.*

4 semester hours

Course Outcomes

#	Upon course completion, a student will be able to:
1.	Apply the mathematical concepts studied to specific problems.
2.	Demonstrate various proof techniques.
3.	Apply logic skills to specific arguments.

Course Materials

Discrete Mathematics with Applications 4th Edition
by Susanna S. Epp (Author)
ISBN-13: 978-0495391326
ISBN-10: 0495391328

Textbook and other materials may be purchased through the bookstore

Grade Basis

Final Exam	30%
Midterm Exam 1	20%
Midterm Exam 2	20%
Assignments	20%
Discussions/Quizzes	10%
Total:	100%

Grading Scale:

90 - 100%	A
80 - 89%	B
70 - 79%	C
60 - 69%	D
Below 60%	F

General Class Policies

- ❖ You are responsible for all work missed, and for meeting assignment due dates when absent. Please call or email your instructor if you are going to be late or absent.
- ❖ You are strongly encouraged to contact your instructor at home by phone or e-mail if you are having difficulties, or have any questions about assignments.
- ❖ All assignments are expected to be the result of your own efforts, not the collaboration with others. Plagiarism or turning in an assignment which is essentially identical to that of another student will result in a zero for that assignment, with no opportunity to make up the grade.
- ❖ Please include your name and the course information in the submitted assignments.
- ❖ Assignments are considered incomplete, if they do not contain reasonable comments, or they are turned in late.
- ❖ There is always a means to submit your assignments on time. Be creative, be persistent, and keep your instructor informed!
- ❖ All assignments must be turned in on or before the due dates to receive full credits.
- ❖ **Missed Tests, Quizzes, Assignments, and Discussions.** As a rule: NO MAKEUPS without a doctor's excuse. If the final exam is not taken, the student will receive a grade of F for the course.

Course Topics

Topics
Chapter 1 Speaking Mathematically Topics 1.1, 1.2, 1.3
Chapter 2 Logic of Compound Statements: Topics 2.1-2.5
Chapter 3 The Logic of Quantified Statements: Topics 3.1-3.4
Chapter 4 Methods of Proof : Topics 4.1-4.8
Chapter 5 Sequences, Induction, Recursion: Topics 5.1-5.6
Midterm Exam 1 (Covers Chapters 1-4)
Chapter 6 Set Theory: Topics 6.1 - 6.4
Chapter 7 Functions: Topics: 7.1-7.4
Review chapters 4-7
Midterm Exam 2 (Covers Chapters 4-7)
Chapter 8 Relations: Topics 8.1-8.5
Chapter 9 Counting and Probability: Topics: 9.1-9.9
Chapter 10 Graphs and Trees Topics: 10.1-10.2, 10.5-10.6
Review for the Final Exam
Final Exam