

MATH 125 Discrete Mathematics I

Section 001, CRN# 10617, TR 7:20-8:35 pm, Robinson B104

Instructor: Christopher J. Paldino

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Office Hours: Tuesdays, 10-11 pm in Robinson B224, and by appointment

Text: *Discrete Mathematics with Graph Theory*, 3rd Edition by Goodaire, Parmenter, published by Pearson (ISBN# 9780134689555).

Prerequisites: Math Placement Algebra I 13 or Undergraduate level **MATH 105** Minimum Grade of C or Undergraduate level **MATH 108** Minimum Grade of C or Undergraduate level **MATH 113** Minimum Grade of C.

Course Goals/Material Covered: The goal for this course is to improve your ability to recognize some important mathematical structures, such as relations, set systems and graphs. We will discuss the foundations of discrete mathematics, including combinatorial proof techniques, sets, functions, mathematical induction, enumeration, recursion, and graphs. Selected sections in Chapters 1-3, 5-7, 9, 10 will be covered. A more detailed schedule will be available on the course website.

Homework: Sections and practice homework problems for material covered will be posted on the course Blackboard page. These homework problems are not to be turned in. However, your success in the course and mastery of the course material will very much depend on your understanding of the material and the amount of time/work spent in practicing the concepts and approaches presented in class lecture and in the textbook.

Grading:

Two in-class tests (25% each)	50%
Quizzes	20%
Final Examination (Tuesday, May 15, 7:30-10:15 pm)	30%

There will be NO make-up exams or quizzes. In the case one of the exam scores is much lower than the others, some consideration may be given in assigning the final grade. If an hour exam is missed due to an unforeseen valid, documentable emergency, your final exam grade will replace the missed exam.

The grading scale will be: **A: 90-100%; B: 80-89%; C: 70-79%; D: 60-69%; F: below 60%**

+ or - may be attached to the grade for the upper or lower 2 points in each range.

Tentative Test Dates*:

- **Test 1** - Thursday, March 8
 - **Test 2** - Thursday, April 12
- *You **must** bring your GMU ID to the exams.

Spring 2018 Important Dates:

- February 23: Last Day to drop
- March 12-18: Spring Break (No class)
- May 03: Last Day of (lecture) Classes
- May 15: Final Exam (7:30-10:15 pm) in Robinson B104

Tutoring Center: The Math Tutoring Center is located in the Johnson Center Room 344. Help is available on a walk-in basis. For hours of operation see <http://math.gmu.edu/tutor-center.php>

University Honor Code: The quizzes, tests, and the final examination are closed-book. No notes or books may be used. In the quizzes, tests and the final examination, calculators are allowed. However, no other electronic devices can be used including mobile phones. You are expected to follow the GMU Honor Code <http://oai.gmu.edu/the-mason-honor-code/>

Course Policies:

1. If there are enough seats in the room, no students are allowed to sit next to each other during exams. I can change the seat of any student during exam for any reason.
2. I may check your ID during exams.
3. **When I build exams, I always think about what I did or said in class. So it is important you don't miss lectures. From my experience, students who attend all lectures tend to perform better in my classes.**

Contact Policy:

- *E-mail:* I ordinarily respond to email communication within one business day.
- *Phone/Text Messages:* Although I try to check phone messages during the week, the preferred method of communication will always be e-mail. I will make every effort possible though to return phone/text messages within 1-2 business days

Disability Statement: If you are a student with a disability and you need academic accommodations, please see me and contact the Office of Disability Resources at 703.993.2474. Academic accommodations are to be arranged through that office.

THIS SYLLABUS IS A TENTATIVE PLAN FOR THE COURSE. THE INSTRUCTOR RESERVES THE RIGHT TO ALTER ANY ITEM WITHIN THIS DOCUMENT AS DEEMED NECESSARY.