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Office Hours: MWF 11–11:50am, or by appointment


Prerequisites: MATH 2451 (Credit will not be given for both MATH 2105 and either MATH 2100 or MATH 2350.)

Exams/Homework:
- Two 60 point examinations will be given during our usual class time, each testing the material covered since the last exam. The class period immediately prior to each exam will be devoted to review, and the exam solutions will be posted on the course website.
- There will be a number of homework problems to be handed in. Each one will be graded out of 3 points, and the twenty best of these will be counted as equivalent to one exam.
- There will be a 90 point takehome final exam given out on Wednesday, May 02, and due by noon, May 09.
- No makeup exams will be given without arrangements being made beforehand, and only extenuating circumstances will be considered.

Grading:

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<tbody>
<tr>
<td>Best twenty homework problems</td>
<td>60</td>
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<tr>
<td>Two hour exams</td>
<td>120</td>
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<tr>
<td>Final exam</td>
<td>90</td>
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<td>Total</td>
<td>270</td>
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Grading scale:
- A: 92–100%
- AB: 87–91%
- B: 78–86%
- BC: 73–77%
- C: 64–72%
- CD: 59–63%
- D: 50–58%
- F: 0–49%

Attendance and Deportment: You are expected to attend all lectures and to be on time. Excessive absences will be noted, and may result in a lowered grade. Norms for classroom conduct are based on respect for the instructor and your fellow students. Distractive behavior, such as using cell phones, reading newspapers, sleeping, surfing the web, or talking to your neighbor, is considered inappropriate.

Policy on Academic Honesty: This is laid out in the Undergraduate Bulletin.

Withdrawal Date: The final date for a voluntary withdrawal from class this semester is Friday, April 13, 2011.

Course Goals: This is a course that introduces the upper-division engineering student to what is commonly called discrete mathematics. The area is vast and topic-oriented, but differs from calculus in that it deals with finite—or countably infinite—systems, rather than with continuity and limits. Among the topics, we will study: logic and the basics of critical thinking (useful in any walk of life); sets and functions; elementary number theory; induction and recursion; counting and probability; relations (especially equivalence relations); graphs; Boolean algebra and logic networks; models of computation. Since this is an upper-division course, there will be emphasis on how we know the mathematical assertions and formulas we say we know; i.e., we will prove stuff. Welcome aboard!