

# *Notes for ECE 369 - Discrete Mathematics for Computer Engineering*

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*August 24, 2023*

These are lecture notes for fall 2023 ECE 36900 at Purdue. Modify, use, and distribute as you please.

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## *Course Introduction*

This course introduces discrete mathematical structures and finite-state machines. Students will learn how to use logical and mathematical formalisms to formulate and solve problems in computer engineering. Topics include formal logic, proof techniques, recurrence relations, sets, combinatorics, relations, functions, algebraic structures, and finite-state machines. For more information, see the syllabus.

## *Equations*

1.

## *Propositional Logic*

Need to add lecture 1. Missed it :(

## *Lecture 2*