

CSCI 3710 - Introduction to Discrete Structures

Fall 2026 Syllabus, Section A01, CRN 43131,

Credit hours: 3

Instructor

Feng Yu

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Public Instructor Information

Instructor Title: Professor

Instructor Professional Qualifications: Ph.D., Computer Science, Southern Illinois University, 2013

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Course Description

3710. Introduction to Discrete Structures. Basic set theory, including functions and relations. Boolean algebra, propositional logic, regular expressions, and finite automata. Prereq.: CSIS 2610 and MATH 1571 or MATH 1585H, or Math Placement Level 9 or 90. 3 s.h.

Course Readings

Group	Title	Author	ISBN
Optional	Discrete Mathematics and Its Applications (2025 Release)	Kenneth H. Rosen	1266191542

The course readings are subject to change in the event of extenuating circumstances, research developments, current events, and/or to ensure better learning.

Schedule of Topics and Assignments

Week of	Proposed Topic	Due/To Prepare for Class
8/24	Logic and Proofs	
8/31	Basic structures and algorithms	
9/7	Number Theory, Cryptography, Induction, and Recursion	
9/14	Counting and Discrete Probability	
9/21	Graphs and Trees	
9/28	Basics of Relations	
10/5	Wrap up	

The course schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances, by mutual agreement, and/or to ensure better learning.