

MULTIMEDIA MATERIALS FOR CSCI 150

The Dolciani Math Center (7th Floor Hunter East) has multi-media materials for the following topics usually taught in CSCI 150. Bring your ID card to the Learning Center and ask for the lesson by the call number below. If there is more than one number listed, there are several alternatives for the lesson. You may pick and choose which works best for you. Tutorial DVDs present computations related to concepts.

TOPIC	Tutorial DVDs	PLATO AVAILABLE UNDER:
The System of Integers	B1(1.6)	
The System of Rational Numbers	B1(1.7)	Rational Numbers: Concepts and Operations
Laws of Exponents	A8, AT3	Exponents and Order of Operations: Introductory
The Binomial Theorem	G9, K6, W3(10.5), A10	Binomial Theorem
Factoring Quadratics	A2, A3, AT1, V6, V7, V9, W1, O2, S3	Factoring Polynomials
Solving Quadratics	A6, A8, X7, X10, S4, V9, AT2	Quadratic Equations: Solving
Rational Expressions	V7, W1(p.7), X7,Y3	Rational Expressions: Concepts, Operations and Solving
Systems of Equations	A4, A5, X7, X8, J20, S4, V4, K5, K6, W2, O2, O3	Systems of Linear (and Quadratic) Equations
Functions	D2, B4-2, W1 1.2-1.7, O1, G1	Functions: Notation, Domain, Range, and Properties
Arithmetic Sequences and Series	J22, W3, V13 G8	
Geometric Sequences and Series	J23, W3, V13, G8	
Sequences and Summation Notation	W3(10.1)	
Numbers in Scientific Notation	X5	Scientific Notation
Describing Sets	B3(3.1), D1	Sets and Venn Diagrams
Relations Among Sets; One-to-one Correspondence	B3-2	Sets and Venn Diagrams
Operations on Sets	B3-3	Sets and Venn Diagrams
Prime Numbers	B1, D3	Factors and Multiples
Greatest Common Divisor and Least Common Multiple/Euclidean algorithm	B1, D3	Factors and Multiples
Matrices	G8, O3, W3	
Logarithms	A8, J19, AT3, O4, G3	Functions: Exponential and Logarithmic
Counting Principles	G9, L4(6), W3(10.6)	Probability: Introductory
The Addition Rule	L4(4)	Probability: Introductory
The Multiplication Rule	L4(5)	Probability: Introductory
Venn Diagrams	B3-4	Sets and Venn Diagrams
Relations and Operations	B4-1	Sets and Venn Diagrams
Permutations and Combinations	J25, D4, L4(7,9)	
Euler Formula	D5	
Introduction to Logic; Statements and Truth tables	B2A(2.1a, 2.1b)	
Truth Tables of Compound Statements	B2A(2.2a), B2A(2.2b)	
The Conditional Connective (Implication)	B2A(2.3)	
The Biconditional Connective, Tautologies, Self-Contradictions	B2A(2.4)	
Converse, Contrapositive, Logical Equivalence, De Morgan's Laws	B2B(2.5)	
Logical Implication	B2B(2.6)	
Universal and Existential Statements	B2B(2.9)	
The Inclusion-Exclusion Principle	L1	
Mathematical Induction	G9, J24, K6, W3(10.4)	
Fibonacci	D1, D2	
Fundamental Theorem of Arithmetic	D3	
Equivalence Relations	B4A	
Modular Addition (Congruence) and Multiplication	B4B D3	
Euler Circuits	H2	
Hamiltonian Circuits	H3	
Solving Simple Rational Equations	AT-1, V7, X7	
Working with Complex Fractions	AT-1, V7, X7	

