

Math 1351 Course Syllabus

Mathematical Reasoning for Elementary Teachers by Long, DeTemple, and Millman (Fifth Edition)

<u>Required Sections</u>		<u>Suggested Homework Exercises</u>	
§8.1	Algebraic Expressions, Functions, and Equations	§8.1	1-9 odd, 10, 11-21 odd, 24, 26, 28, 29, 30, 32, 36, 37, 42, 43, 44, 45
§8.2	Graphing, Geometry, and Algebra in the Cartesian Plane	§8.2	1, 3, 5, 6, 7-15 odd, 17, 18, 20, 21, 24, 25, 27, 34, 39, 40, 41
§9.1	Organizing and Representing Data	§9.1	1, 2, 3, 4, 6-14 all, 16-20 all, 23, 27-36 all
§9.2	Measuring the Center and Variation of Data	§9.2	1-7 all, 12, 13, 15, 16, 18, 20, 23, 24, 30-36 all
§9.3	Statistical Inference	§9.3	1-8 all, 11, 12, 14, 15, 16, 17, 18, 21, 22, 23, 24, 30, 31
§10.1	Experimental Probability	§10.1	1, 3, 4, 5, 6, 8, 10-15 all, 17-23 all, 28, 29, 32, 33
§10.2	Principles of Counting	§10.2	1-10 all, 13, 14, 18-21 all, 23, 24, 25, 26, 27, 36, 37
§10.3	Permutations and Combinations	§10.3	1-6 all, 7-11 all, 13, 14, 17, 18, 19, 21, 22, 23, 24, 25, 30
§10.4	Theoretical Probability	§10.4	1-7 odd, 10-18 all, 22-25 all, 28, 29, 35, 36, 38, 39, 40, 41
§11.1	Figures in the Plane	§11.1	1, 4, 6, 8, 10-18 all, 21, 22, 23, 27, 28, 30, 37, 40, 41, 45
§11.2	Curves and Polygons in the Plane	§11.2	1-8 all, 11, 13, 16, 17, 20, 22, 23, 24, 43, 44
§11.3	Figures in Space	§11.3	1, 2, 3, 4, 6, 8, 11, 15, 19, 22, 32, 34, 35, 36, 37
§11.4	Networks	§11.4	
§12.1	The Measurement Process	§12.1	4-13 all, 16-21 all, 24-27 all, 33, 34, 35
§12.2	Area and Perimeter	§12.2	1, 6-13 all, 15, 17, 19, 20, 23, 24, 25, 32, 48, 49, 50, 52, 53
§12.3	The Pythagorean Theorem	§12.3	1-6 all, 8, 9, 12, 13, 14, 16, 27, 28, 29, 35, 37, 38, 39
§12.4	Surface Area and Volume	§12.4	1-6 all, 8, 10, 11, 13, 14, 16, 18, 19, 24, 42, 43, 44, 45
§14.1	Congruent Triangles	§14.1	1, 2, 5, 7-14 all, 17, 24, 30, 32, 36, 37, 38
§14.2	Constructing Geometric Figures	§14.2	1, 3, 4, 9, 10, 12, 13, 16, 17, 23, 27, 39, 42
§14.3	Similar Triangles	§14.3	1, 2, 3, 6, 7, 8, 12, 14, 15, 24, 25, 27, 33, 34
§13.1	Rigid Motions and Similarity Transformations	§13.1	2, 3, 4, 5, 6, 9, 11, 12, 32, 35, 47, 48
§13.2	Patterns and Symmetries	§13.2	1, 5, 7, 8, 9, 10, 11, 13, 14, 19, 22, 23, 42, 43
§13.3	Tilings and Escher-Like Design	§13.3	4, 5, 7, 10, 14, 15, 23, 27