

MATH 11000 Fundamentals of Algebra
Spring 2017 Syllabus/MyLabs Plus Assignments (MW)

TEXTBOOK *Concepts and Applications in Mathematics Second Custom Edition for Math 11000 at IUPUI*, Pearson Custom Publishing, ISBN 9781323494073. *Note: The eText version of the textbook is included with MyLabs Plus.*

It is strongly suggested that you finish the MyLabs Plus homework by the “recommended” due date. All homework assignments must be completed by 9am on each exam day (see the schedule below).

Day	Date	Topics	MLP Due Date
1	Monday, 1/09	1.1 Some Basics of Algebra 1.2 Operations and Properties of Real Numbers 1.6 Properties of Exponents	1/30
2	Wednesday, 1/11	1.3 Solving Equations 1.4 Introduction to Problem Solving 1.5 Formulas, Models, and Geometry	1/30
	<i>Monday 1/16</i>	<i>MLK Jr., Holiday – No Class</i>	
3	Wednesday, 1/18	2.1 Graphs 2.2 Functions 2.3 Linear Functions: Slope, Graphs, and Models	1/30
4	Monday, 1/23	2.4 Another Look at Linear Graphs 2.5 Equations of Lines and Modeling	1/30
5	Wednesday, 1/25	2.6 The Algebra of Functions Review for Exam	1/30
6	Monday, 1/30	Exam #1	
7	Wednesday, 2/01	5.1 Introduction to Polynomials and Polynomial Functions 5.2 Multiplication of Polynomials	2/27
8	Monday, 2/06	5.3 Common Factors and Factoring by Grouping 5.4 Factoring Trinomials 5.5 Factoring Perfect-Squares and Differences of Squares	2/27
9	Wednesday, 2/08	7.1 Radical Expressions and Functions 7.2 Rational Numbers as Exponents	2/27
10	Monday, 2/13	7.3 Multiplying Radical Expressions 7.4 Dividing Radical Expressions <i>Complex/Imaginary Numbers</i>	2/27
11	Wednesday, 2/15	5.8 Applications of Polynomial Equations 8.1 Quadratic Equations	2/27
12	Monday, 2/20	8.2 The Quadratic Formula/8.4 Applications of Quadratic Equations <i>Applications using Quadratic Equations (from 5.8, 8.1, 8.2, 8.4)</i>	2/27
13	Wednesday, 2/22	Review for Exam	2/27

Day	Date	Topics	MLP Due Date
14	Monday, 2/27	Exam #2	
15	Wednesday, 3/01	8.6 Quadratic Functions and Their Graphs 8.7 More About Graphing Quadratic Functions 8.8 Problem Solving and Quadratic Functions	3/27
16	Monday, 3/06	9.1 Composite Functions and Inverse Functions 9.2 Exponential Functions	3/27
17	Wednesday, 3/08	9.3 Logarithmic Functions 9.4 Properties of Logarithmic Functions	3/27
	Monday, 3/13	<i>Spring Break – No class</i>	
	Wednesday, 3/15	<i>Spring Break – No class</i>	
18	Monday, 3/20	9.5 Common Logarithms and Natural Logarithms 9.6 Solving Exponential and Logarithmic Equations	3/27
19	Wednesday, 3/22	9.7 Applications of Exponential and Logarithmic Functions Review for Exam	3/27
20	Monday, 3/27	Exam #3	
21	Wednesday, 3/29	3.1 Systems of Equations in Two Variables 3.2 Solving by Substitution or Elimination 3.3 Solving Applications: Systems of Two Equations 3.8 Business and Economics Applications	4/12
22	Monday, 4/03	3.4 Systems of Equations in Three Variables 3.5 Solving Applications: Systems of Three Equations	4/12
23	Wednesday, 4/05	4.1 Inequalities and Applications 4.2 Intersections, Unions, and Compound Inequalities 4.4 Inequalities in Two Variables	4/12
24	Monday, 4/10	4.5 Applications Using Linear Programming Review for Exam	4/12
25	Wednesday, 4/12	Exam #4	
26	Monday, 4/17	<i>(from Miller, Mathematical Ideas, 13e)</i> 3.1 Statements and Quantifiers 3.2 Truth Tables and Equivalent Statements	5/01
27	Wednesday, 4/19	<i>(from Miller, Mathematical Ideas, 13e)</i> 3.3 The Conditional and Circuits 3.4 The Conditional and Related Statements	5/01
28	Monday, 4/24	<i>(from Miller, Mathematical Ideas, 13e)</i> 3.6 Analyzing Arguments with Truth Tables	5/01
29	Wednesday, 4/26	Review for Final	
30	Monday, 5/01	Review for Final	
	Thursday, 5/04	Final Exam 1-3pm in Lecture Hall (Rooms TBA)	