MATH 11000 Fundamentals of Algebra  
Fall 2018 Syllabus/MyLabs Plus Assignments (MW)


*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).*

<table>
<thead>
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<th>Day</th>
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<th>Topics</th>
<th>MLP Due Date</th>
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</table>
| 1   | Monday, 8/20 | 1.1 Some Basics of Algebra  
1.2 Operations and Properties of Real Numbers  
1.6 Properties of Exponents | 8/27         |
| 2   | Wednesday, 8/22 | 1.3 Solving Equations  
1.4 Introduction to Problem Solving  
1.5 Formulas, Models, and Geometry | 8/29         |
| 3   | Monday, 8/27 | 2.1 Graphs  
2.2 Functions  
2.3 Linear Functions: Slope, Graphs, and Models | 9/5          |
| 4   | Wednesday, 8/29 | 2.4 Another Look at Linear Graphs  
2.5 Equations of Lines and Modeling | 9/10         |
| 5   | Wednesday, 9/5 | 2.6 The Algebra of Functions  
Review for Exam | 9/10         |
| 6   | Monday, 9/10 | Exam #1 |         |
| 7   | Wednesday, 9/12 | 5.1 Introduction to Polynomials and Polynomial Functions  
5.2 Multiplication of Polynomials | 9/19         |
| 8   | Monday, 9/17 | 5.3 Common Factors and Factoring by Grouping  
5.4 Factoring Trinomials  
5.5 Factoring Perfect-Squares and Differences of Squares | 9/24         |
| 9   | Wednesday, 9/19 | 7.1 Radical Expressions and Functions  
7.2 Rational Numbers as Exponents | 9/26         |
| 10  | Monday, 9/24 | 7.3 Multiplying Radical Expressions  
7.4 Dividing Radical Expressions  
*Complex/Imaginary Numbers* | 10/1         |
| 11  | Wednesday, 9/26 | 5.8 Applications of Polynomial Equations  
8.1 Quadratic Equations | 10/3         |
| 12  | Monday, 10/1 | 8.2 The Quadratic Formula  
8.4 Applications of Quadratic Equations  
*Applications using Quadratic Equations (from 5.8, 8.1, 8.2, 8.4)* | 10/8         |
<p>| 13  | Wednesday, 10/3 | Review for Exam |         |
| 14  | Monday, 10/8 | Exam #2 |         |</p>
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| 15  | Wednesday, 10/10 | 8.6 Quadratic Functions and Their Graphs  
8.7 More About Graphing Quadratic Functions  
8.8 Problem Solving and Quadratic Functions | 10/22        |
| 16  | Wednesday, 10/17 | 9.1 Composite Functions and Inverse Functions  
9.2 Exponential Functions | 10/24        |
| 17  | Monday, 10/22  | 9.3 Logarithmic Functions  
9.4 Properties of Logarithmic Functions | 10/29        |
| 18  | Wednesday, 10/24 | 9.5 Common Logarithms and Natural Logarithms  
9.6 Solving Exponential and Logarithmic Equations | 10/31        |
| 19  | Monday, 10/29  | 9.7 Applications of Exponential and Logarithmic Functions  
Review for Exam | 10/31        |
| 20  | Wednesday, 10/31 | **Exam #3**  |              |
| 21  | Monday, 11/5   | 3.1 Systems of Equations in Two Variables  
3.2 Solving by Substitution or Elimination  
3.3 Solving Applications: Systems of Two Equations | 11/12        |
| 22  | Wednesday, 11/7 | 3.4 Systems of Equations in Three Variables  
3.5 Solving Applications: Systems of Three Equations  
3.8 Business and Economics Applications | 11/14        |
| 23  | Monday, 11/12  | 4.1 Inequalities and Applications  
4.2 Intersections, Unions, and Compound Inequalities  
4.4 Inequalities in Two Variables | 11/19        |
| 24  | Wednesday, 11/14 | 4.5 Applications Using Linear Programming  
Review for Exam | 11/19        |
| 25  | Monday, 11/19  | **Exam #4**  |              |
|     | Wednesday, 11/21 | *Thanksgiving Break – No Class*  |              |
| 26  | Monday, 11/26  | *(from Miller, Mathematical Ideas, 13e)*  
3.1 Statements and Quantifiers  
3.2 Truth Tables and Equivalent Statements | 12/3         |
| 27  | Wednesday, 11/28 | *(from Miller, Mathematical Ideas, 13e)*  
3.3 The Conditional and Circuits  
3.4 The Conditional and Related Statements | 12/5         |
| 28  | Monday, 12/3   | *(from Miller, Mathematical Ideas, 13e)*  
3.6 Analyzing Arguments with Truth Tables |              |
| 29  | Wednesday, 12/5 | Review for Final |              |
| 30  | Monday, 12/10  | Review for Final |              |
|     | Thursday, 12/13 | **Final Exam 1-3pm in Lecture Hall (Rooms TBA)** |              |