

## **MAT1033 – Intermediate Algebra**

### Lecture & Exam Schedule

Prepared by Professor Toribio J Matamoros

Textbook – *Beginning & Intermediate Algebra, 6<sup>th</sup> Edition*, by Martin-Gay

### **COURSE TOPICS**

#### CHAPTER 3 – GRAPHING

- Section 3.1 – Reading Graphs and the Rectangular Coordinate System
- Section 3.2 – Graphing Linear Equations
- Section 3.3 – Intercepts
- Section 3.4 – Slope and Rate of Change
- Section 3.5 – Equations of Lines

#### CHAPTER 4 – SOLVING SYSTEMS OF LINEAR EQUATIONS

- Section 4.1 – Solving Systems of Linear Equations by Graphing
- Section 4.2 – Solving Systems of Linear Equations by Substitution
- Section 4.3 – Solving Systems of Linear Equations by Addition
- Section 4.5 – Systems of Linear Equations and Problem Solving

#### CHAPTER 5 – EXPONENTS AND POLYNOMIALS

- Section 5.6 – Dividing Polynomials

#### CHAPTER 6 – FACTORING POLYNOMIALS

- Section 6.6 – Solving Quadratic Equations by Factoring

#### CHAPTER 7 – RATIONAL EXPRESSIONS

- Section 7.1 – Rational Functions and Simplifying Rational Expressions
- Section 7.2 – Multiplying and Dividing Rational Expressions
- Section 7.3 – Adding and Subtracting Rational Expressions with Common Denominators
- Section 7.4 – Adding and Subtracting Rational Expressions with Unlike Denominators
- Section 7.5 – Solving Equations Containing Rational Expressions
- Section 7.6 – Proportion and Problem Solving with Rational Equations
- Section 7.7 – Simplifying Complex Fractions

**CHAPTER 8 – MORE ON FUNCTIONS AND GRAPHS**

- Section 8.4 – Variation and Problem Solving

**CHAPTER 9 – INEQUALITIES AND ABSOLUTE VALUE**

- Section 9.4 – Graphing Linear Inequalities in Two Variables and Systems of Linear Inequalities

**CHAPTER 10 – RATIONAL EXPONENTS, RADICALS, AND COMPLEX NUMBERS**

- Section 10.1 – Radicals and Radical Functions
- Section 10.2 – Rational Exponents
- Section 10.3 – Simplifying Radical Expressions
- Section 10.4 – Adding, Subtracting, and Multiplying Radical Expressions
- Section 10.5 – Rationalizing Denominators and Numerators of Rational Expressions
- Section 10.6 – Radical Equations and Problem Solving
- Section 10.7 – Complex Numbers

**CHAPTER 11 – QUADRATIC EQUATIONS AND FUNCTIONS**

- Section 11.1 – Solving Quadratic Equations by Completing the Square
- Section 11.2 – Solving Quadratic Equations by the Quadratic Formula

**LECTURE & EXAM SCHEDULE**

<b>Tuesday</b>	<b>Thursday</b>
09/12 Course Introduction	09/14 Sections 3.1 – 3.3
09/19 Section 3.4 & Section 3.5	09/21 Chapter 3 Review
09/26 <b>EXAM 1</b>	09/28 Section 4.1 & Section 4.2

Tuesday	Thursday
10/03 Section 4.3 & Section 4.5	10/05 Section 5.6 & Section 6.6
10/10 Chapters 4 – 6 Review	10/12 <b>EXAM 2</b>
10/17 Section 7.1 & Section 7.2	10/19 Section 7.3 & Section 7.4
10/24 Section 7.5 & Section 7.6	10/26 Section 7.7
10/31 Section 8.4	11/02 Section 9.4
11/07 Chapters 7 – 9 Review	11/09 <b>EXAM 3</b>
11/14 Section 10.1 & Section 10.2	11/16 Section 10.3 & Section 10.4
11/21 Section 10.5	11/23 <b>NO CLASS</b>
11/28 Section 10.6	11/30 Section 10.7
12/05 Section 11.1 & Section 11.2	12/07 Chapters 10 – 11 Review



Wolfson Campus

Tuesday	Thursday
12/12 <b>EXAM 4</b>	12/14 <b>EXAM MAKE-UP DAY</b>