

MAT1033 Intermediate Algebra
Course Reference Number 285021
Fall 2008

Days: Monday, Wednesday, and Friday
Time: 10:00am-11:10pm
Room: Building G Room 317
Instructor: Amanda Nunley
Office Location: Building E Room 112
Office Phone Number: 904-646-2117
Office Hours: Monday and Wednesday 4:00pm-6:00pm
Tuesday and Thursday 3:30pm-6:00pm
Friday 11:30am-12:30pm or by appointment
Email: anunley@fccj.edu
Website: www.math15fun.com
Textbook: Intermediate Algebra Custom Edition with MyMathLab
Authors: Elayn Martin-Gay
Course ID: nunley60555
FCCJ's Zip Code: 32246

Grading		Grading Scale	
Homework	25%	90-100	A
Practice Exams	10%	80-89	B
Exam 1, 2, and 3	40%	70-79	C
Final Exam	25%	60-69	D
		Below 60	F

Attendance: Attendance is required to be successful in this class. I will count attendance everyday. You should arrive on time and stay the entire class. You will automatically be dropped from the course if you do not attend at least one class meeting by September 10, 2008.

Homework: Your homework assignments will be completed using MyMathLab, a computer software that is purchased with your textbook. You will need a valid email address, an access code, and my course id (**nunley60555**) to register the software. The school zip code is **32246**. After we have covered a section during class, the homework assignment will be available for you to complete and will be due on the day of the next exam. Keep a spiral notebook of the problems that you work within the software. You should label the chapter, section and problem number that you are working on. Bonus will be given of the end of the term for the completeness of your notebook. Homework will count for **25%** of your grade so it is essential to complete it.

Practice Exams: For each exam, including the final, you will have practice materials via MyMathLab available for you. You must access these materials and complete them by the day of each exam.. You may start viewing them anytime after the material for that exam has started with no penalty. You will be given unlimited attempts to achieve the grade you desire on these practice exams. Your grade will be determined by the highest grade you achieved on all attempts. The practice portion is worth 10% of your final grade.

Exams: The tentative dates for the exams are given on the calendar. Your exam grades will be averaged and will count for **40%** of your final grade. Exams can be made up with documentation of an emergency or if prior arrangements were made.

Final: There will be a cumulative final exam in this course. The final exam counts for **25%** of your grade. It will be given Friday December 12, 2008 10:30am-12:30pm.

Expectations

I expect you to show respect your classmates and me by...

- ...being on time to class
- ...being prepared for class
- ...turning your phone off or on silent during class
- ...refraining from talking during lecture

You can expect that I...

- ...am on time to class
- ...return assignments in a timely manner
- ...am prepared for class

Important Dates:

Labor Day:	Monday September 1
Drop Deadline:	Tuesday September 2
Withdraw Deadline:	Monday November 3
Veteran's Day:	Tuesday November 11
Thanksgiving Holiday:	Thursday November 27- Sunday November 30
Final Exam:	Friday December 12, 2008 10:30am-12:30pm

Course Description: MAT 1033 Intermediate Algebra — 4 Credit Hours

Prerequisite: MAT 0024 with a grade of "C" or better or satisfactory score on the placement test. This course is designed for students who require additional skills in algebra before taking MAC 1105, MGF 1106 or MGF 1107. The major topics include sets and real numbers, linear equations and inequalities with applications, polynomials and factoring, algebraic fractions, exponents, roots and radicals, quadratic equations, relations and functions, graphs and systems of linear equations with applications. This course does not apply toward the associate in arts degree. Four contact hours. A.A., A.A.S.

Academic Dishonesty: Academic dishonesty, in any form, is expressly prohibited at Florida Community College. Academic dishonesty includes cheating, plagiarism or any other form of unethical behavior. Please read the College's policy on page 423 of the College Catalog.

Extra Credit: Extra credit will be offered throughout the term. Please take advantage of it when the opportunity arises.

Disabled Student Services: If you believe that you have a disability requiring an accommodation, please contact “Disabled Student Services” in Building U, Room 114. Phone number: 646-2191.

Learning Center (646-2169)/ Library (646-2174) Testing Center Hours (646-2251)

Monday - Thursday	7:30am-9:00pm	Monday	8:00am - 7:00pm
Friday	7:30am-3:00pm	Tuesday	8:00am - 8:00pm
Saturday	9:00am-3:00pm	Wednesday	8:00am - 8:00pm
		Thursday	8:00am - 7:00pm
		Friday	8:00am - 3:00pm

Course Content

Chapter 1 Real Numbers and Algebraic Expression

- 1.2 Algebraic Expressions and Sets of Numbers
- 1.3 Operations on Real Numbers
- 1.4 Properties of Real Numbers

Chapter 2 Equations, Inequalities, and Problem Solving

- 2.1 Linear Equations in One Variable
- 2.2 An Introduction to Problem Solving
- 2.3 Formulas and Problem Solving
- 2.4 Linear Inequalities and Problem Solving
- 2.5 Compound Inequalities
- 2.6 Absolute Value Equations
- 2.7 Absolute Value Inequalities

Chapter 3 Graphs and Functions

- 3.1 Graphing Equations
- 3.2 Introduction to Functions
- 3.3 Graphing Linear Functions
- 3.4 The Slope of a Line
- 3.5 Equations of Lines
- 3.6 Graphing Piecewise-Defined Functions and Shifting and Reflecting Graphs of Functions
- 3.7 Graphing Linear Inequalities

Chapter 4 Systems of Equations

- 4.1 Solving Systems of Equations in Two Variables

Chapter 5 Exponents, Polynomials, and Polynomial Functions

- 5.1 Exponents and Scientific Notations
- 5.2 More Work with Exponents and Scientific Notation
- 5.3 Polynomials and Polynomial Functions
- 5.4 Multiplying Polynomials
- 5.5 The Greatest Common Factor and Factoring by Grouping

5.6 Factoring Trinomials

5.7 Factoring by Special Products

5.8 Solving Equations by Factoring and Problem Solving

Chapter 6 Rational Expressions

6.1 Rational Functions and Multiplying and Dividing Rational Expressions

6.2 Adding and Subtracting Rational Expressions

6.3 Simplifying Complex Fractions

6.4 Dividing Polynomials: Long Division

6.5 Solving Equations Containing Rational Expressions

6.6 Rational Equations and Problem Solving

6.7 Variation and Problem Solving

Chapter 7 Rational Exponents, Radicals, and Complex Numbers

7.1 Radicals and Radical Expressions

7.2 Rational Exponents

7.3 Simplifying Radical Expressions

7.4 Adding, Subtracting, and Multiplying Radical Expressions

7.5 Rationalizing Denominators and Numerators

7.6 Radical Equations and Problem Solving

Chapter 8 Quadratic Equations and Functions

8.1 Solving Quadratic Equations by Completing the Square

8.2 Solving Quadratic Equations by the Quadratic Formula

8.3 Solving Equations by Using Quadratic Methods

8.5 Quadratic Functions and Their Graphs