COURSE TITLE  Intermediate Algebra
COURSE NUMBER  MAT1033
PREREQUISITES  Credit level MAT 0028 Minimum Grade of C. or CPT-Elem Algebra 072 or ACT Math 019 or SAT I Mathematics - Enhanced 440

CREDIT HOURS  3.0
CONTACT HOURS  45

CLASS MEETING TIMES  MTWR 10:00AM-11:45AM in C-233
CLASS METHOD  Traditional classroom course (class meets in person)

INSTRUCTOR  Susan McClellan Abagnale
  susan.abagnale@fkcc.edu
  Office # C 213
  Office # 305-809-3216

OFFICE HOURS  M-TH 11:45AM-12:45PM, 2:45PM-3:45PM
  MW 9:00AM-10:00AM

COURSE DESCRIPTION  This course is designed for students who require additional skills in algebra before taking MAC 1105, MGF 1106, MGF 1107 or STA 2023. The major topics include sets, linear equations and inequalities with applications, absolute value, polynomials and factoring, algebraic fractions, rational expressions with applications, exponents, roots and radicals, quadratic equations with applications, relations and functions, graphs, and systems of linear equations and inequalities with applications.

COURSE OBJECTIVES  Upon completion of the course, the student will be able to:

1. Use basic operations with real numbers and use algebraic terminology and laws
2. Understand basic function notation and evaluation
3. Solve and graph linear equations and inequalities
4. Solve systems of equations in more than one variable
5. Perform arithmetic operations with polynomials and rational expressions
6. Simplify radical expressions and solve equations containing them
7. Solve quadratic equations
**REQUIRED TEXTBOOK**  MyMathLab Student Access Kit with eBook  
**PUBLISHER**  Pearson  
**ISBN**  032119991X

**PROPOSED COURSE SCHEDULE**

Please note: The course schedule is subject to change to meet the needs of the course and its students. If you miss a class, it is YOUR responsibility to stay current.

<table>
<thead>
<tr>
<th>Date</th>
<th>Textbook Chapters--Topics</th>
<th>Assignments-- Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>23-Jun</td>
<td>Introduction and Review, Ch 1 (1.1)</td>
<td>Sign up-MyMathLab</td>
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<tr>
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<td>HW 1-MyMathLab</td>
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<tr>
<td>24-Jun</td>
<td>Ch 1 (1.1, 1.2, 1.3)</td>
<td>HW 2-MyMathLab</td>
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<td>25-Jun</td>
<td>Ch 1 (1.3, 1.4, 1.5)</td>
<td>HW 3-MyMathLab</td>
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<td>26-Jun</td>
<td>Ch 1, 2 (1.5, 2.1, 2.2) Practice Test 1 Available</td>
<td>HW 4-MyMathLab</td>
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<td>30-Jun</td>
<td>Ch 2 (2.2, 2.3, 2.4 )</td>
<td>HW 5-MyMathLab</td>
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<td>1-Jul</td>
<td>Ch 2 (2.4, 2.5, 2.6)</td>
<td>HW 6-MyMathLab</td>
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<td>2-Jul</td>
<td>Ch 3 (3.1, 3.2, 3.3) Test 1 Assigned (due 9-Jul)</td>
<td>HW 7-MyMathLab</td>
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<td>Exam—100 points</td>
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<td>3-Jul</td>
<td>Ch 3 (3.3, 3.4, 3.7)</td>
<td>HW 8-MyMathLab</td>
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<td>7-Jul</td>
<td>Ch 3, 4 (3.7, 4.1)</td>
<td>HW 9-MyMathLab</td>
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<td>8-Jul</td>
<td>Ch 4 (4.2, 4.3)</td>
<td>HW 10-MyMathLab</td>
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<td>9-Jul</td>
<td>Ch 4 (4.4, 4.5) Test 1 Due</td>
<td>HW 11-MyMathLab</td>
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<td>10-Jul</td>
<td>Ch 4, 5 (4.6, 4.8, 5.1)</td>
<td>HW 12-MyMathLab</td>
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<td>14-Jul</td>
<td>Ch 5 (5.1, 5.2) Test 2 Assigned (due 21-Jul)</td>
<td>HW 13-MyMathLab</td>
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<td>Exam—100 points</td>
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<td>15-Jul</td>
<td>Ch 5 (5.2, 5.3, 5.4, 5.5)</td>
<td>HW 14-MyMathLab</td>
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<td>16-Jul</td>
<td>Ch 5 (5.6, 6.1)</td>
<td>HW 15-MyMathLab</td>
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<td>17-Jul</td>
<td>Ch 6 (6.1, 6.2, 6.3)</td>
<td>HW 16-MyMathLab</td>
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<tr>
<td>21-Jul</td>
<td>Ch 6 (6.3, 6.4, 6.5) Test 2 Due</td>
<td>HW 17-MyMathLab</td>
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<tr>
<td>22-Jul</td>
<td>Ch 6 (6.6, 6.7, 6.8)</td>
<td>HW 18-MyMathLab</td>
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<td>23-Jul</td>
<td>Ch 6, 7 (6.8, 7.1) Test 3 Assigned (due 30-Jul)</td>
<td>HW 19-MyMathLab</td>
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<td>Exam—100 points</td>
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<tr>
<td>24-Jul</td>
<td>Ch 7 (7.1, 7.2, 7.3, 7.4)</td>
<td>HW 20-MyMathLab</td>
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<td>28-Jul</td>
<td>Exam Review</td>
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<td>29-Jul</td>
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<td>30-Jul</td>
<td>Exam Review Test 3 Due</td>
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<tr>
<td>31-Jul</td>
<td><strong>Cumulative Final Exam</strong></td>
<td>Exam—100 points</td>
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</table>
1. **Chapter 1 Solving Linear Equations and Inequalities**
   1.1 Solving Equations
   1.2 Formulas and Applications
   1.3 Applications and Problem Solving
   1.4 Sets, Notation, and Interval Notation
   1.5 Intersections, Unions, and Compound Inequalities
2. **Chapter 2 Graphs, Functions, and Applications**
   2.1 Graphs of Equations
   2.2 Functions and Graphs
   2.3 Finding Domain and Range
   2.4 Linear Functions: Graphs and Slope
   2.5 More on Graphing Linear Equations
   2.6 Finding Applications of Lines
3. **Chapter 3 Systems of Equations**
   3.1 Systems of Equations in Two Variables
   3.2 Solving by Substitution
   3.3 Solving by Elimination
   3.4 Solving Applied Problems: Two Equations
   3.7 Systems of Inequalities in Two Variables
4. **Chapter 4 Polynomials and Polynomial Functions**
   4.1 Introduction to Polynomials and Polynomial Functions
   4.2 Multiplication of Polynomials
   4.3 Introduction to Factoring
   4.4 Factoring Trinomials: \( x^2 + bx + c \)
   4.5 Factoring Trinomials: \( ax^2 + bx + c, a \neq 1 \)
   4.6 Special Factoring
   4.8 Applications of Polynomials, Equations, and Functions
5. **Chapter 5 Rational Expressions, Equations, and Functions**
   5.1 Rational Expressions and Functions: Multiplying, Dividing and Simplifying
   5.2 LCMs, LCDs, Addition and Subtraction
   5.3 Division of Polynomials
   5.4 Complex Rational Expressions
   5.5 Solving Rational Equations
   5.6 Applications and Proportions
6. **Chapter 6 Radical Expressions, Equations, and Functions**
   6.1 Radical Expressions and Functions
   6.2 Rational Numbers as Exponents
   6.3 Simplifying Radical Expressions
   6.4 Addition, Subtraction, and More Multiplication
   6.5 More on Division of Radical Expressions
   6.6 Solving Radical Equations
   6.7 Applications Involving Powers and Roots
   6.8 The Complex Numbers
7. **Chapter 7 Quadratic Equations and Functions**
   7.1 The Basics of Solving Quadratic Equations
   7.2 The Quadratic Formula
   7.3 Applications Involving Quadratic Equations
   7.4 More on Quadratic Equations

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STUDENT EVALUATION AND COURSE POLICIES

<table>
<thead>
<tr>
<th>STUDENT GRADE DETERMINATION</th>
<th>FKCC GRADING SCALE</th>
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<tbody>
<tr>
<td>60% 3 Tests @ 100 pts each (300 pts total)</td>
<td>90-100% A</td>
</tr>
<tr>
<td>20% 20 Homework Assignments @ 5 pts each (100 pts total)</td>
<td>80-89% B</td>
</tr>
<tr>
<td>20% Comprehensive Final Exam @ 100 pts</td>
<td>70-79% C</td>
</tr>
<tr>
<td>100% Final Grade (500 total points)</td>
<td>60-69% D</td>
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<tr>
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<td>Below 60% F</td>
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**E-MAIL COMMUNICATION:** All class e-mail communications should be conducted using your FKCC student email address. The prime responsibility for timely communications rests with you - the student.

**Important Note:** If I have not responded to your email or voicemail message by the end of the day after you left the message, you should assume that I did not receive it and leave another message. Email is the best means of communication with me.

**Reading Assignments and Homework**
1. To succeed in this course, you should do all assigned textbook readings and review class notes frequently.

**Attendance Policy**
1. I will monitor student attendance and participation in educational activities on a weekly basis.
2. Students who do not regularly participate in class by submitting the assignments that are due each week, or are considered absent for more than 3 class periods during the semester, are subject to administrative withdrawal at any time without notice.
3. An instructor may withdraw a student from courses for excessive absences and/or non-attendance up to the 70% point in the semester.

**Special Needs**
If you have any special needs or requirements pertaining to this course, please discuss them with the instructor early in the term. If you have special needs as addressed by the Americans with Disabilities Act (ADA) and need assistance, please notify the Office for Students with Disabilities at 305-809-3504 via email at: karla.malsheimer@fkcc.edu or the course instructor immediately. Reasonable efforts will be made to accommodate your special needs.

**Community Decorum**
A positive learning experience depends upon respect among all members of this classroom community. Disregard or disrespect for the process, the group or toward any individual will result in removal from the class and may result in you being dropped from the course.

**SEXUAL PREDATORS**
Federal and State law requires a person designated as a “sexual predator or offender” to register with the Florida Department of Law Enforcement (FDLE). The FDLE then is required to notify the local law enforcement agency where the registrant resides, attends or is employed by an institution of higher learning. Information regarding sexual predators or offenders attending or employed by an institution of higher learning may be obtained from the local law enforcement agency with jurisdiction for the particular campus, by calling the FDLE hotline (1-888-FL-PREDATOR) or (1-888-357-7332), or by visiting the FDLE website at
If there are questions or concerns regarding personal safety, please contact the Campus Security Officer on your campus.

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Policies in this syllabus are subject to change if the instructor deems necessary and appropriate.

| Students are expected to familiarize themselves with FKCC Policies, | which can be found in the current Student Handbook. |