Division of Arts & Sciences  
Department of Mathematics  
Course Syllabus

COURSE TITLE  
College Algebra (CRN 30054)

COURSE NUMBER  
MAC 1105

PREREQUISITES  
Credit level MAT 1033 Minimum Grade of C or suitable placement score.

CREDIT HOURS  
3.0

CONTACT HOURS  
45.0

CLASS MEETING TIMES  
Online course: no meeting times.

CLASS METHOD  
This course is designed as an online course, and therefore there are no on-campus meeting dates required. A student may access the course on the first day of class at: http://online.fkcc.edu. If there is difficulty logging in to the course or the student does not see the course listed, contact the Office of Distance Learning helpline at 305-809-3177, or e-mail to D2lhelp@fkcc.edu for assistance.

Announcements - Weekly Announcements from the instructor may be posted on the announcements page. To access click on "Announcements" under Course Tools.

INSTRUCTOR  
Susan M. Abagnale  
Susan.Abagnale@fkcc.edu (Email is the best method to reach me.)  
Office: Building C Room 213  
Phone: 305-809-3216 (Email is the best method to reach me.)

OFFICE HOURS  
By Appointment or email me during May 12, 2014 - June 22, 2014.  

Gordon Rule Mathematics Requirement:  
This course satisfies the Gordon Rule mathematics requirement. A grade of “C” or higher must be attained.

COURSE DESCRIPTION  
This course is a study of functions and their properties. The functions studied include polynomials, rational, absolute value, radical, exponential, and logarithmic. Properties include functional notation, domains, ranges,
graphs, operations, and inverses. Application problems are designed so that they can be applied to practical situations.

**COURSE OBJECTIVES**

Upon completion of the course, the student will be able to demonstrate knowledge—by successfully answering questions on an objective examination—of the following topics:

1. Functions and functional notation.
2. Graphs of functions and relations.
3. Function domains and ranges identification.
4. Graph linear, quadratics, polynomial and rational functions.
5. Absolute value and radical functions and their graphs.
6. Function arithmetic.
7. Inverse functions.
8. Exponential and logarithmic properties, functions and equations.

**Required Materials:** MyMathLab Student Stand Alone Access Kit, or MyMathLab purchased Online by credit card or PayPal.

**Publisher:** Pearson

**ISBN:** 032119991X (MyMathLab Student Stand Alone Access Kit)

MyMathLab includes access to an electronic copy of the textbook, and you are not required to purchase a physical copy of the textbook. When you create access to MyMathLab through [http://pearsonmylabandmastering.com/](http://pearsonmylabandmastering.com/) you will need to enroll in the appropriate section of the course using the Course ID: abagnale88484

Instructions for creating your Pearson account are included in the “Course Introduction” that is posted in the Announcements section of the course in D2L. **All students are required to register for MyMathLab on Monday, May 12, 2014.** Regardless of whether a student is ready to pay, temporary access is granted free of charge for 14 days (Look for the tiny link on the bottom of the registration page).
# 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>Meeting Date</th>
<th>Textbook Chapters–Topics</th>
<th>A</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>M, May 12</td>
<td>Section 1.1, Graphs and Graphing Utilities</td>
<td>1</td>
<td>2.5 points</td>
</tr>
<tr>
<td>W, May 14</td>
<td>Section 1.2, Basics of Functions and Their Graphs</td>
<td>2</td>
<td>2.5 points</td>
</tr>
<tr>
<td>F, May 16</td>
<td>Section 1.3, More on Functions and Their Graphs</td>
<td>3</td>
<td>2.5 points</td>
</tr>
<tr>
<td>M, May 19</td>
<td>Section 1.4 Linear Functions and Slope</td>
<td>4</td>
<td>2.5 points</td>
</tr>
<tr>
<td>W, May 21</td>
<td>Section 1.5, More on Slope</td>
<td>5</td>
<td>2.5 points</td>
</tr>
<tr>
<td>F, May 23</td>
<td>Section 1.6, Transformations of Functions</td>
<td>6</td>
<td>2.5 points</td>
</tr>
<tr>
<td>M, May 26</td>
<td>Section 1.9, Distance and Midpoint Formulas; Circles</td>
<td>7</td>
<td>2.5 points</td>
</tr>
<tr>
<td>W-T, May 28-June 3</td>
<td>Practice Test 1, MyMathLab</td>
<td></td>
<td>100 points</td>
</tr>
<tr>
<td>W-F, June 4-6</td>
<td>Test 1, MyMathLab</td>
<td></td>
<td>2.5 points</td>
</tr>
<tr>
<td>M, June 9</td>
<td>Section 2.3, Complex Numbers</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>W, June 11</td>
<td>Section 2.4, Quadratic Equations</td>
<td>9</td>
<td>2.5 points</td>
</tr>
<tr>
<td>F, June 13</td>
<td>Section 3.1, Quadratic Functions</td>
<td>10</td>
<td>2.5 points</td>
</tr>
<tr>
<td>M, June 16</td>
<td>Section 3.2, Polynomial Functions and Their Graphs</td>
<td>11</td>
<td>2.5 points</td>
</tr>
<tr>
<td>W, June 18</td>
<td>Section 3.3, Dividing Polynomials; Remainder and Factor Theorems</td>
<td>12</td>
<td>2.5 points</td>
</tr>
<tr>
<td>F, June 20</td>
<td>Section 3.5, Rational Functions and Their Graphs</td>
<td>13</td>
<td>2.5 points</td>
</tr>
<tr>
<td>M, June 23</td>
<td>Section 3.6, Polynomial and Rational Inequalities</td>
<td>14</td>
<td>2.5 points</td>
</tr>
<tr>
<td>W-T, June 25-Jul 1</td>
<td>Practice Test 2, MyMathLab</td>
<td></td>
<td>100 points</td>
</tr>
<tr>
<td>W-M, July 2-7</td>
<td>Test 2, MyMathLab</td>
<td></td>
<td>2.5 points</td>
</tr>
<tr>
<td>July 2-31</td>
<td>Final Exam Review</td>
<td></td>
<td></td>
</tr>
<tr>
<td>W, July 9</td>
<td>Section 1.7, Combinations of Functions; Composite Functions</td>
<td>15</td>
<td>2.5 points</td>
</tr>
<tr>
<td>F, July 11</td>
<td>Section 1.8, Inverse Functions</td>
<td>16</td>
<td>2.5 points</td>
</tr>
<tr>
<td>M, July 14</td>
<td>Section 4.1, Exponential Functions</td>
<td>17</td>
<td>2.5 points</td>
</tr>
<tr>
<td>W, July 16</td>
<td>Section 4.2, Logarithmic Functions</td>
<td>18</td>
<td>2.5 points</td>
</tr>
<tr>
<td>F, July 18</td>
<td>Section 4.3, Properties of Logarithms</td>
<td>19</td>
<td>2.5 points</td>
</tr>
<tr>
<td>M, July 21</td>
<td>Section 4.4, Exponential and Logarithmic Equations</td>
<td>20</td>
<td>2.5 points</td>
</tr>
<tr>
<td>M-Th, July 21-24</td>
<td>Practice Test 3, MyMathLab</td>
<td></td>
<td></td>
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<tr>
<td>F-M, July 25-28</td>
<td>Test 3</td>
<td></td>
<td>100 points</td>
</tr>
<tr>
<td>T-Th, July 29-31</td>
<td>Final Exam</td>
<td></td>
<td>150 points</td>
</tr>
</tbody>
</table>
Student Evaluation and Course Policies

Once all homework assignments are completed, MyMathLab will record an average homework score for each student. That percentage will be multiplied by 50. That number will be added to (1) the two highest scores of the three exams (i.e., the lowest of the three test scores is disregarded, each worth 100 points) and (2) the final exam score (worth 150 points). The table below will be used to assess a final course grade based on that number.

<table>
<thead>
<tr>
<th>Student Grade Determination</th>
<th>400 Total Course Points</th>
<th>FKCC Grading Scale</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>360 – 400 course points</td>
<td>90-100%</td>
</tr>
<tr>
<td>B</td>
<td>320 – 359 course points</td>
<td>80-89%</td>
</tr>
<tr>
<td>C</td>
<td>280 – 319 course points</td>
<td>70-79%</td>
</tr>
<tr>
<td>D</td>
<td>240 – 279 course points</td>
<td>60-69%</td>
</tr>
<tr>
<td>F</td>
<td>239 course points and fewer</td>
<td>Below 60%</td>
</tr>
</tbody>
</table>

Exam Policy

- Each test will be given online. Each test must be taken during the dates of the test. Each test must be taken in one sitting. You will not be able to access other tabs or windows while taking a test or you will be locked out of the test and lose all your work and have to email me to unlock everything and start a new test. The Test scores are averaged into the MyMathLab grade, but not dropping the lowest test grade. That part of the overall average calculation will take place after final exams have been completed.
- You have three days to take the Final Exam.

Homework Policy

- In general, each homework assignment will be posted at the beginning of a third of the class (each third of the class is comprised of a test). The due dates of all assignments within a third of the course will be due on the day before the test is opened (See MyMathLab and Syllabus for due dates).
- You should follow the order and schedule of assignments in the syllabus, typically every Monday, Wednesday, and Friday.
- You must complete the assignments in the order in which they occur in the syllabus since each assignment is a prerequisite to the next one.
- The average homework score will be computed from the homework assignments only.
- The scores from the practice assignments, practice tests, and tests will not be included in the average homework score or the average test score.
- Each homework assignment will have pages of the e-Book to read, a PowerPoint presentation to read, and a section video to watch. Each of these must be completed before you may complete the questions in the homework assignment.

Makeup Policy

Each student is granted no more than one extension of up to one week during the semester. Makeup tests/exams may be offered to students with emergencies, but only if they can provide acceptable
documentation of the emergency (e.g., hospital admits slip, etc.). The instructor reserves the right to change the format of any makeup exams.

**Communications:** The online format of this class puts a premium on communications. The prime responsibility for timely communications rests with you - the student. This course will utilize the following methods:

**EMAIL:** The email utility within D2L should not be used for personal items that are not appropriate to share with the entire class. This e-mail uses the student’s FKCC e-mail account. PLEASE USE susan.abagnale@fkcc.edu TO EMAIL ME. I prefer regular FKCC email rather than using D2L.

**What can the student expect from your instructor?**

The instructor will log into D2L and check for messages at least once per day, including once on a weekend and on holidays. If the student has an urgent message for the instructor, do not post the same message both on a Discussion Forum and in an email. Doing both will waste the student’s time and will not result in the instructor getting the message any faster. If the instructor expects to be out of contact for more than a couple of days, he or she will inform the class via the Announcement section...

**Important Note:** If the instructor has not responded to a student email message by 24 hours after the student sent the message, the student may assume that the instructor did not receive it and send another message.

**Logging Off From D2L**

In order to better serve our faculty and students, all D2L users should click the “Logout “link when completing online course work. By logging off instead of just closing the internet browser window, D2L server space is freed and system performance is optimized. In addition, logging off will more accurately record each student’s time logged into the online course.

**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

www.fdle.state.fl.us/sexual_predators.

If there are questions or concerns regarding personal safety, please contact the Campus Security Officer on your campus.

Copyright Notice

The materials and content provided in this course is intended only for registered Florida Keys Community College students who have paid their tuition and fees to attend this course. Materials that are affected include, but are not limited to, text, still images, audio recordings, video recordings, simulations, animations, diagrams, charts, and graphs. Every effort has been made to insure these materials are not disseminated to anyone beyond those who have legally registered for this course. Download, revision, or distribution of course material with anyone other than registered classmates and the instructor is strictly prohibited.

Students are expected to familiarize themselves with the FKCC Policies which can be found in the current Student Handbook (http://www.fkcc.edu/stuhand1112/index.html).
Class Contract

The Class Contract assignment is my method of ensuring you know what you should expect from me and what I expect from you. By returning the Class Contract to me, you are acknowledging that you:

a. Understand the policies detailed in this Syllabus.
b. Understand the expectations and due dates listed in the Course Calendar and Assessment Measures.
c. Understand that you will be held accountable to the standards published in this document.
d. The Class Contract must be submitted via scanning and emailing to the instructor or putting in the D2L drop box by **Wednesday, May 14, 2014**.

By signing my name, I acknowledge the above.

Print Name: ___________________________ Date: ____________

Signature: ____________________________