Division of Arts & Sciences  
Department of Mathematics  
Course Syllabus

**COURSE TITLE**  
College Algebra (CRN 10083)

**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](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**  
T/TH – 12:30-1:00pm  
M/W – 3:15-5:15pm  
T – 4:45-7:15pm  
TH – 4:15-5:45pm

**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/ you will need to enroll in the appropriate section of the course using the Course ID: abagnale03448

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 Thursday, August 21, 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>Aug 21</td>
<td>Section 1.1, Graphs and Graphing Utilities</td>
<td>1</td>
<td>2.5 points</td>
</tr>
<tr>
<td>Aug 26</td>
<td>Section 1.2, Basics of Functions and Their Graphs</td>
<td>2</td>
<td>2.5 points</td>
</tr>
<tr>
<td>Aug 28</td>
<td>Section 1.3, More on Functions and Their Graphs</td>
<td>3</td>
<td>2.5 points</td>
</tr>
<tr>
<td>Sept 2</td>
<td>Section 1.4 Linear Functions and Slope</td>
<td>4</td>
<td>2.5 points</td>
</tr>
<tr>
<td>Sept 4</td>
<td>Section 1.5, More on Slope</td>
<td>5</td>
<td>2.5 points</td>
</tr>
<tr>
<td>Sept 9</td>
<td>Section 1.6, Transformations of Functions</td>
<td>6</td>
<td>2.5 points</td>
</tr>
<tr>
<td>Sept 11</td>
<td>Section 1.9, Distance and Midpoint Formulas; Circles</td>
<td>7</td>
<td>2.5 points</td>
</tr>
<tr>
<td>Sept 16</td>
<td>Practice Test 1, MyMathLab</td>
<td></td>
<td></td>
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<tr>
<td>Sept 18-25</td>
<td>Test 1, MyMathLab</td>
<td></td>
<td>100 points</td>
</tr>
<tr>
<td>Sept 23</td>
<td>Section 2.3, Complex Numbers</td>
<td>8</td>
<td>2.5 points</td>
</tr>
<tr>
<td>Sept 25</td>
<td>Section 2.4, Quadratic Equations</td>
<td>9</td>
<td>2.5 points</td>
</tr>
<tr>
<td>Sept 30</td>
<td>Section 3.1, Quadratic Functions</td>
<td>10</td>
<td>2.5 points</td>
</tr>
<tr>
<td>Oct 2</td>
<td>Section 3.2, Polynomial Functions and Their Graphs</td>
<td>11</td>
<td>2.5 points</td>
</tr>
<tr>
<td>Oct 7</td>
<td>Section 3.3, Dividing Polynomials; Remainder and Factor Theorems</td>
<td>12</td>
<td>2.5 points</td>
</tr>
<tr>
<td>Oct 9</td>
<td>Section 3.5, Rational Functions and Their Graphs</td>
<td>13</td>
<td>2.5 points</td>
</tr>
<tr>
<td>Oct 14</td>
<td>Section 3.6, Polynomial and Rational Inequalities</td>
<td>14</td>
<td>2.5 points</td>
</tr>
<tr>
<td>Oct 16</td>
<td>Practice Test 2, MyMathLab</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oct 21-28</td>
<td>Test 2, MyMathLab</td>
<td></td>
<td>100 points</td>
</tr>
<tr>
<td>Oct 28</td>
<td>Final Exam Review</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Practice Final Exam</td>
<td></td>
<td></td>
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<tr>
<td>Oct 28</td>
<td>Section 1.7, Combinations of Functions; Composite Functions</td>
<td>15</td>
<td>2.5 points</td>
</tr>
<tr>
<td>Oct 30</td>
<td>Section 1.8, Inverse Functions</td>
<td>16</td>
<td>2.5 points</td>
</tr>
<tr>
<td>Nov 4</td>
<td>Section 4.1, Exponential Functions</td>
<td>17</td>
<td>2.5 points</td>
</tr>
<tr>
<td>Nov 6</td>
<td>Section 4.2, Logarithmic Functions</td>
<td>18</td>
<td>2.5 points</td>
</tr>
<tr>
<td>Nov 11</td>
<td>Veteran's Day</td>
<td></td>
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<tr>
<td>Nov 13</td>
<td>Section 4.3, Properties of Logarithms</td>
<td>19</td>
<td>2.5 points</td>
</tr>
<tr>
<td>Nov 18</td>
<td>Section 4.4, Exponential and Logarithmic Equations</td>
<td>20</td>
<td>2.5 points</td>
</tr>
<tr>
<td>Nov 20</td>
<td>Practice Test 3, MyMathLab</td>
<td></td>
<td></td>
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<tr>
<td>Nov 25-Dec 4</td>
<td>Test 3</td>
<td></td>
<td>100 points</td>
</tr>
<tr>
<td>Dec 4-10</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 400 Total Course Points</th>
<th>FKCC Grading Scale</th>
</tr>
</thead>
<tbody>
<tr>
<td>A 360 – 400 course points</td>
<td>90-100% A</td>
</tr>
<tr>
<td>B 320 – 359 course points</td>
<td>80-89% B</td>
</tr>
<tr>
<td>C 280 – 319 course points</td>
<td>70-79% C</td>
</tr>
<tr>
<td>D 240 – 279 course points</td>
<td>60-69% D</td>
</tr>
<tr>
<td>F 239 course points and fewer</td>
<td>Below 60% F</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 Tuesday and Thursday.
- 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 **Thursday, Aug 28, 2014.**

By signing my name, I acknowledge the above.

Print Name: ___________________________ Date: ___________________________

Signature: ___________________________
With SMARTHINKING Online Tutoring, you can
Connect with a tutor and interact live.
Submit your writing for any class to our Online Writing Lab.
Submit a question and receive a reply from a tutor.

Follow these steps to get started:
1. Go to https://learning.smarthinking.com
2. Enter Username: firstname.lastname@fkcc.edu
3. Password: FKCC Student ID #
4. You will be directed to your personal Homepage

Technology Requirements and Troubleshooting
- Cookies/Javascript should be enabled.
- Please disable all popup blockers for www.smarthinking.com
- Make sure that your browser is set up to allow cookies and pop-up windows (SMARTHINKING uses both of these)
- Make sure that you have Java installed. If you need to install Java, go to http://www.java.com and follow the instructions for the free download.
- For a full list of the most up to date settings, please refer here http://www.smarthinking.com/static/customerSupport/technicalRequirementsFAQ/

Need help using SMARTHINKING?
Click on the SMARTHINKING Student Handbook in the Customer Support & FAQ area of your homepage.
Or, contact Customer Support at support@smarthinking.com or (888) 430-7429 ext. 1 (Mon-Fri, 8am – 6pm)