



SYLLABUS

College Algebra

MAC 1105 / 3 credit hours

Fall 2015

Instructor: Hady (Parham) Ahmady Phoulady

Course Meeting Days and Times: T/TH 11:00 AM – 12:15 PM

Effective Dates: August 18 – December 8, 2015

Office Location: BADM 217

Office hours: T/TH 10:45 AM – 11:00 AM

Phone: (813) 817- 5784

Email Address (preferred contact method): hahmadyphoulady@hccfl.edu

MyMathLab Course ID: [ahmadyphoulady44506](#)

The best way to contact me is by email. You can expect the instructor to respond to your emails within 24 hours of receiving your email, except on weekends and holidays.

Other office hours are available by appointment only.

For the slides, visit: <http://www.cse.usf.edu/~hady/courses/mac1105/fa15/index.html>

COURSE DESCRIPTION:

Provides students with the opportunity to gain algebraic knowledge needed for many fields such as engineering, business, science, computer technology, and mathematics. Graphical and numerical methods support the study of functions and their corresponding equations and inequalities. Students will study linear, quadratic, polynomial, rational, exponential, logarithmic, inverse, composite, radical, and absolute value functions; systems of equations and inequalities; modeling applied problems; and curve fitting techniques. Previous credit in any MAC class precludes credit in MAC 1105.

Note: Graphing calculators are required.

PREREQUISITE:

MAT 1033 with a grade of at least “C” or a required score on the HCC Placement test.

REQUIRED MATERIALS:

MyMathLab Student Access Code which will include the following:

- Access to MyMathLab Homework
- E-book of College Algebra, 3rd ed., by Kirk Trigsted

Optionally, the student may wish to purchase the bundled package which includes a MyMathLab access code and a physical copy of the eText Reference.

ADDITIONAL MATERIALS NEEDED:

1. Pencils (to be used on all tests and in class quizzes).
2. Calculator - Each student should have his or her own scientific or graphing calculator (**no symbolic calculator, such as TI – 89 or 92**). Calculators may be used on all tests and quizzes. Students cannot use their cell phones as a calculator in class.

GRADING SYSTEM

TESTING:

Four 100 point tests will be administered as outlined on the tentative class schedule. A 100 point cumulative **mandatory** final will be given at the end of the term. If a student misses one test, the grade for that test will be the grade from the final exam. If a student takes all the tests and scores higher on the final exam than on one or more of the tests, the lowest test grade will be replaced by the final exam score. If a student misses more than one test, the first zero score will be replaced with the grade from the final exam and all other grades will remain zeros. **Tests will not be made –up.**

QUIZZES:

Eight online quizzes will be given throughout the term. They are designed to help students prepare for the tests. The 6 highest scores will be counted. **Quizzes will not be made-up.** The two quizzes missed will count as the quiz grades to be dropped. If more than two quizzes are missed, the first two zero scores will be dropped and all other zero scores will remain. Students will have two attempts at each online quiz and 120 minutes to complete each attempt. **The deadline for each online quiz is at 11:59 pm of the due date.**

NOTE: Students must finish the quiz two hours after starting. If your browser or computer crashes, log back in immediately because the quiz time continues to count down.

HOMEWORK:

The homework consists of assignments on the MyMathLab website. All assignments will be graded by the computer for credit. There is no time limit on homework assignments and you can attempt the same question multiple times. However, each assignment must be completed at midnight of the due date stated online. You can receive online help by using the available buttons on the screen. The assigned homework is the minimum required and you should do more exercises to reinforce areas in which you may feel you need more help. Additional practice homework questions can be found in MyMathLab under “Study Plan” or in your textbook.

Every student gets a free temporary 14 calendar day grace period to use MyMathLab. It is very important that you register yourself in the MyMathLab course within the first 2 days of class. If you do not purchase the access code and transfer your registration to a permanent account, on day 15 your records and work will no longer be accessible on MyMathLab. THE REGISTRATION ON MYMATHLAB WILL BE CLOSED ON 9/1/2015. YOU MUST HAVE A PERMANENT ACCOUNT ON MYMATHLAB BY 9/1/2015.

You should call the toll free MyMathLab Tech Support services number **(1-800-677-6337)** if you have any questions or problems. If you have any difficulty with your personal computer, you may go to any Brandon Campus computer lab, the Math Lab (BLRC 200) or Student Success Center (BACA 207) and use the school computers to do the online homework.

SUGGESTION: As you work through the online homework questions, you should write down the directions and problems neatly and keep the work organized so you have this to refer to when studying for tests.

Warning: Do not wait until the last minutes to do homework. Sometimes computers freeze, breakdown, ETC. Allow yourself plenty of time.

INDIVIDUAL ACTIVITIES:

There will be two pop quizzes and also extra credits given in class. Pop quizzes will not be made-up! Instructor reserves the right to make adjustments in favor of students who attended all classes.

	EVENT	PERCENTAGE
1.	Tests	65%
2.	Eight Quizzes (the two lowest scores will be dropped)	10%
3.	Homework	10%
4.	Individual Activities	5%
6.	Final Exam	10%

GRADING SCALE	
90 – 100 %	A
80 – 89 %	B
70 – 79 %	C
60 – 69 %	D
0 – 59 %	F

Final grades may be viewed via WebAdvisor at the end of each term (www.facts.org).
Your grade will be posted regularly on MyMathLab.

CLASS ATTENDANCE:

Attendance will be taken every class. Absences in excess of 10% of the total class meetings may result in a failing grade. Also, these absences will result in veterans being reported to the VA. It is extremely important to be on time to class. All early departures should be discussed and cleared with the instructor prior to class. Students are always responsible for letting the instructor know they are present if they arrive in the classroom after the instructor has taken the attendance.

RELIGIOUS OBSERVANCES:

HCC will reasonably accommodate the religious observances, practices, and beliefs of students in its admissions, examination policies, and work assignments. You must notify me in writing one week prior to a religious observance.

WITHDRAWAL:

The last day for the students to withdraw from the course is FRIDAY, OCTOBER 30th, 2015
 Additional information regarding the withdrawal policy can be found in the HCC Catalog, 2015 - 2016.

INCOMPLETE:

Before an incomplete grade is given, all of the following requirements must be satisfied:

1. You must have completed more than two-third of the course.
2. You must have at least a "C" average.
3. You must provide written documentation justifying the request.

INCOMPLETE GRADES MUST BE APPROVED BY THE INSTRUCTOR AND CONFIRMED BY THE ACADEMIC DEAN. Additional information regarding the incomplete policy can be found in the HCC Catalog, 2015 - 2016.

ACADEMIC SUCCESS CENTER (MATH LAB):

The Academic Success Center (ASC) provides *free* math support and resources designed to help students be successful, including

- drop-in tutoring, tutor-assisted group study sessions, and workshops
- textbooks, calculators, and solution manuals available for use in the ASC.

The Academic Success Center (ASC) is located in BLRC 200. It is open Monday – Thursday from 9:00 AM to

7:30 PM and Friday from 9:00 AM to 1:00 PM. It will be closed on Saturday, Sunday and all college holidays. The phone number is 253-7839. The Math Lab will be open to all students on a walk-in basis, but each student will need to sign in every time they enter the lab. In order for students to receive consistent instruction. For more information, please see: <http://www.hccfl.edu/br/student-services/academic-success-center/asc-frontpage.aspx> or click on the button in CANVAS.

Also available to students is SmarThinking: a 24/7 online tutoring service provided free to students at Hillsborough Community College. For more information, go to: <https://smarthinking.hccfl.edu/index.php> or click on the button in CANVAS.

ACADEMIC DISHONESTY POLICY:

Cheating is a serious offense. The cheating policy is described in the HCC Student Handbook. Anyone caught cheating on any work that contributes to the grade in this course will be given an automatic and permanent zero for that work. If cheating occurs on an online test or the midterm or final, the grade of that test will not be will not be dropped.

REQUEST FOR ACCOMMODATION:

Any student whose disability falls within the American Disabilities Act (ADA) and requires accommodations should contact the office of services for students with disabilities. The Brandon office is located in the Student Service Building room 109. You may also reach the office by phone at (813) 253-7914. Requests for accommodations should be submitted to me within the first two weeks of the course. Accommodations cannot be applied retroactively. With that in mind, you are encouraged to seek assistance from the disabilities office as soon as possible. After receiving the accommodations memo from the Disability Office send it to me immediately using only your HCC email address. Sending a copy of the memo after the fact will not entitle you to redo work or retake exams with accommodations.

TEST CENTER INFORMATION:

Before taking the Midterm Exam and the Final Exam on campus, you must email the test center to make the appointment to test AT LEAST 24 HOURS in advance of taking the test. The Brandon Test Center email address is: brtesting@hccfl.edu . Within the message of the email, you must provide the following information:

1. Your name
2. Instructor's name (Hassani)
3. Course Name (MAC 1105)
4. Designate if you are taking the Midterm Exam or the Final Exam)
5. Date and time you wish to take the test (Hours are: Monday & Tuesday 8:30 – 5:30, Wednesday & Thursday 8:30 – 3:00, and Friday 8:30 – 10:30)

YOU MUST BEGIN YOUR EXAMS NO LATER THAN 5:30 ON MONDAYS AND TUESDAYS, 3:00 ON WEDNESDAY AND THURSDAYS, AND 10:30 A.M. ON FRIDAYS.

You will receive an Automatic reply: Appointment - APPROVAL confirmation. The Brandon test center is located in BSSB 203.

EMAIL:

One of the personal tools offered to you is an official HCC student email address. You are expected to use this email as the primary means of communicating with me.

EQUITY/EQUAL ACCESS POLICY:

Hillsborough Community College is an equal access/equal opportunity employer that makes employment and education-related decisions without regard to race, color, gender, religion, national origin, age, disability, sexual orientation, marital status or any other bias that is or may be prohibited by laws. In addition, the college does not discriminate in employment practices or in the admission and treatment of students. HCC is committed to equitable treatment for all students and employees and to learning and working environment free of discrimination and harassment for current as well as future students and employees. The college provides equal educational

opportunities for qualified individuals with disabilities and complies with, as well as, supports the Americans with Disabilities Act. HCC's Equity Officer ensures compliance with federal and state laws prohibiting discrimination and sexual harassment. Employees and students who believe they have been a victim of discrimination or sexual harassment should contact: Dr. Joan B. Holmes, Special Assistant to the President for Equity and Special Programs. Her telephone number and email are: 813-253-7043, jholmes16@hccfl.edu

SAFETY AND SECURITY:

If you notice any situations while on campus that represent potential or real safety or security problems, you should notify the local campus Public Safety Office: • **253-7911** •

CLASSROOM ETIQUETTE:

- 1.) Please be on time to class and do not leave until the instructor is finished. It is very disruptive to the other students in the class when students are coming in and going out.
- 2.) If you do come in late or have to leave early sit near the door.
- 3.) Please do not come up to the desk to get any papers when you come in late. The instructor will give them to you at the end of the class.
- 4.) **Please put all electronic equipment (cell phones, ipods, etc.) other than your calculator on vibrate mode or turned off completely. Laptops should be closed and put away . Ear phones should not be worn.**
- 5.) **Students are not allowed to receive or send text messages during class.**
- 6.)
- 7.) Please do not bring food or drink into the room except for water.
- 8.) Keep talking to a minimum and only related to this class while the instructor is lecturing.

REMEMBER :



MAC 1105 OBJECTIVES
Kirk Trigsted/ Third edition
(FALL 2015)

1. FUNCTIONS AND GRAPHS

- a. Find the distance between two points. (2.1)
- b. Define and identify relations and functions. (3.1)
- c. Find the domain and range of relations and functions. (3.1, 3.2)
- d. Use functional notation. (3.1)
- e. Evaluate and simplify the difference quotient of a function. (3.1)
- f. Identify linear functions and solve applied problems with linear functions.
(1.1, 1.2)
- g. Perform operations with functions, including composition. (3.5)
- h. Understand characteristics and properties of the graphs of functions, including symmetry, extrema, and intervals of increasing, decreasing, constant.
(3.2)
- i. Graph basic functions: $y = c$, $y = x$, $y = x^2$, $y = x^3$, $y = \sqrt{x}$, $y = |x|$, $y = \frac{1}{x}$
(3.3)
- j. Apply graphical transformations to functions. (3.4)
- k. Graph piecewise defined functions. (3.3)
- l. Find the inverse of a function algebraically and graphically. (3.6)

2. POLYNOMIAL FUNCTIONS

- a. Graph quadratic functions and solve optimization problems involving quadratic functions.
(4.1, 4.2)
- b. Use characteristics of polynomial functions to graph, including end behavior and multiplicity of zeros. (4.3)
- c. Solve polynomial inequalities. (1.9)

3. RATIONAL FUNCTIONS

- a. Graph rational functions including intercepts, vertical and horizontal asymptotes, and end behavior. (4.6)
- b. Solve rational inequalities. (1.9)
- c. Solve application problems involving rational functions. (4.6)

4. EXPONENTIAL AND LOGARITHMIC FUNCTIONS

- a. Convert between exponential and logarithmic form. (5.2)
- b. Evaluate logarithmic and exponential expressions.
(5.1, 5.2)
- c. Use and apply the properties of logarithms, including change of base.
(5.2, 5.3)
- d. Graph exponential and logarithmic functions. (5.1, 5.2)
- e. Solve exponential and logarithmic equations. (5.1, 5.4)
- f. Solve applications of exponential growth and decay.(5.5)

5. Systems of equations and inequalities

- a. Solve systems of linear equations in 3 variables by elimination/substitution. (7.2)
- b. Solve systems of non-linear equations in 2 variables. (7.5)
- c. Solve systems of non-linear inequalities graphically. (7.6)
- d. Solve application problems using systems of equations. (7.2)



Student Registration for MyMathLab

Website Description

MyMathLab is a website you can use to assess your math skills, do homework, take quizzes, view videos, get live tutorial help, and more! Access to this website is with a MyMathLab Student kit that comes with your **new** textbook. For more information about this website, including system requirements, go to www.mymathlab.com. You can find helpful video tutorials on registration under the Tours and Training tab at the MyMathLab website.

On-line Registration

You'll need:

- Your **access code** found in your student access kit.
- A valid **email address**
- Your Professor's **Course ID** Number: ahmadyphoulady44506
- Your **school zip code**: 33619

1. Go to www.pearsonmylab.com.
2. Click on the **Register** button below Students
3. Review the **Before You Start** information to ensure you have everything you need to register; Click Next.
4. Enter your Course ID from your instructor and click Find Course.
5. Under Enrollment Options click on Access code if you have one or click buy now if you need to purchase online. Enter you access code in the boxes and click **Next**.
6. Read the Privacy Policy and License Agreement screen and click "I Accept" to continue.
7. If you have previously taken a course in Pearson MyLabs or MathXL course, click **Yes**, and enter your username and password, If you are not sure, click on Not Sure and enter your email address. The system will try and look you up. If you have never had a Pearson account click on **No**, to create your login and password..
8. Fill in all required Personal Information, select your school from the drop-down list, then create your own personal login name & password for this site. Your password must have at least eight characters and include at least one number and one letter. Do not use the login name for the password. We recommend using your email address as your login name.
9. Choose 1 of 4 security questions (for use if you forget your password) & type the answer. Click **Next**.
10. Your **Confirmation & Summary** screen appears; write down your confirmed login/password (a confirmation email will be sent to you. If you use a Spam email blocker, be sure to allow emails from Pearsoned.com). Click the MyMathLab **Log In Now** button and use the log in name & password you just created to enter MyMathLab. In the future, you will enter your MyMathLab course from this site, www.pearsonmylab.com, so it's a good idea to bookmark this page. You will not have to register again for this course.
11. Under **Courses you are taking**, click on the Course name to access your professor's web material.

Important: You **MUST** install all required software **plugins** to use this website from a home or work computer. A link to the Installation Wizard is located from a button within the MyMathLab website --run the [MyMathLab Installation Wizard](#). AOL users must minimize that browser and use Internet Explorer. You must also disable any pop-up blockers for this site only. Safari and Firefox can also be used as browsers.

Inside MyMathLab

Once you are in your MyMathLab course, you will see a series of buttons on the left. Use these to access your online homework, take sample quizzes, and work your Study Plan. Textbook material (videos, worked examples, Tools for Success, etc.) is found under Chapter Contents. Your professor may have customized this website, so features & button names may vary. For Technical Support go to <http://247.support.pearsoned.com/>; you can send an email or use chat from this site. You may also call Toll Free 1-800-677-6337, Monday through Friday 8AM – 8PM, Sun. 5-PM-12AM EST.