

**Math111 /College Algebra/crn 40442 / TuTh 10:15-12:15pm /HCC 190 /F'17
Syllabus: Full Form**

A short form of this is handed out in class.

Instructor: Liz Coleman	Office: GRV 214	Office hours: Mon: 11:00 - 12:30 in GRV 234;
Phone: 541-383-7414	TuTh: 12:15 - 1:00 pm in HCC 190; Wed: 10:30 - 11:30 in GRV 214	
Email: ecoleman@cocc.edu	Web: http://www.cocc.edu/ecoleman/	

Textbook: From the COCC bookstore: \$111.00, *Algebra and Trigonometry* 4th ed., loose-leaf packaged with WebAssign* software, by James Stewart, ISBN: 9781305719781, published by Cengage Learning. You should purchase a three-ring binder to keep your loose-leaf "book" intact. Alternatively, for \$94.00, and no loose-leaf book you can get just the WebAssign access. In both cases, you will have access to a full copy of the book electronically through the WebAssign website.

Calculators: A graphing calculator is required, the TI83 or 84 is recommended.

Prerequisite: Math 95, Intermediate Algebra, with a grade of C or better.

Course Description: Mth 111 is a 4-credit course designed to examine in detail the applied, real-world, and theoretical mathematical implications of the mathematical concept of a function. The symbolic, numerical, and graphical representations of the mathematical concept of a function introduced in Mth 95 will be expanded and explored. Emphasis will be on solving problems symbolically, numerically and graphically. Quadratic, polynomial, rational, exponential, and logarithmic functions will be studied.

Course Outcomes: Students who complete Math 111, College Algebra will be able to:

1. Model and solve applied, real-world, and theoretical mathematical problems requiring the solution of linear, quadratic, polynomial, rational, exponential, and logarithmic functions.
2. Use a graphing calculator to create appropriate graphs that represent mathematical models, determine appropriate viewing windows and accurately interpret and draw inferences regarding the meaning, implications and limitations of the graphs.
3. Examine a variety of relationships stated in symbolic, graphical, or tabular form and determine which represent functions; determine what the domain and range of functions are; and draw inferences regarding the meaning, implications and limitations of the given representation of the function.
4. Modify and combine algebraic and graphical representations of functions and describe the relationship between the methods and functional representations.
5. Investigate and solve one-variable non-linear inequalities by coordinate graphing and algebraic means and explain the relation between the methods and solutions.

Grading:	<u>Weight</u>	Approximate grading scale:	
Homework (HW - on WebAssign*)	10%	A- - A	90%-100%
Problems Of the Day (PODs)	10%	B- - B+	80%-89.9%
Labs	15%	C- - C+	70%-79.9%
Two tests	40%	D	60%-69.9%
Final	25%	F	<59.9%
Total	100%		

***See link on my web page for information on getting started with WebAssign.**

Attendance: Attendance is mandatory the first week and necessary thereafter if you plan to succeed in this course. *You will be dropped if you miss a class the first week*

Tests and Final Exam:

Tests: There will be two tests and one final exam given throughout the quarter. *Tentative* dates for the tests and material covered are as follows:

Test 1: Week 5; Chapter 2, sections 2.1-2.7

Test 2: Week 8; Chapter 4 and section 2.8

MAKE-UP TESTS ARE GIVEN ONLY WITH PRIOR ARRANGEMENT.

Final exam: Thurs, Dec 14, 10:15-12:15 in HCC 190

The final is comprehensive, mandatory, and includes chapter 3.

Homework, PODs and Labs

Homework & Review: HW will be assigned every class meeting that we complete a section. I'm available right after class for 45 minutes to go over questions you may have on the material. We will be using WebAssign, a web based program that has come packaged with your text, for your HW. You do not need to purchase the textbook. You may use the ebook version with the WebAssign homework by purchasing the disk/card from the bookstore or on line at webassign.net. See the next page for what sections we'll be covering each week. If you get your HW in by midnight of the "bonus due" date - which will be posted in class and on WebAssign - you will get a 10% bonus, 10% of the score for correct answers is added back to your score. You may turn in your HW "late" for no penalty, but no bonus either. **THE ABSOLUTE DEADLINE FOR ALL HW TO BE TESTED ON IS MIDNIGHT, THE DAY BEFORE EACH TEST.** You get 5 attempts for each problem. Make sure you work out your HW with pencil and paper, neatly, in a "homework" notebook. If you have any questions on any of the problems you can get help from me or at one of two tutor centers, located in the library basement or the Tutor Center in Grandview, GRV 235.

It is difficult to help you if you have no written work to show!

There are also six **review problem** HW sets due before the first test, which focus on algebra and problem solving skills. These too can be found on WebAssign. See each assignment for its bonus due date. Note Review **P5: Algebraic Expressions** has a bonus due date of Sept. 27

Note: Get help immediately if you don't understand a concept or why your answer is not coming up correct (green check mark means correct in WA). One needs to "do" math to learn math. I highly recommend that you try to work with others while working on the homework. One way to learn math well is to explain it to others.

Problems of the Day (PODs): Every class day we will have a "Problems of the Day" (POD) work sheet at 10 points each - some may have bonus points available. They will be handed out at the beginning of each class and collected during class. I will count your total for the term out of 90% of the total points available, so no late POD's are accepted. These problems will be review, or from previous material, or checks for understanding of key concepts. You will be comparing answers with your neighbors and presenting your answers on the board so you will be able to **MAKE CORRECTIONS BEFORE YOU TURN THEM IN.**

Labs: We will have 6 or 7 labs this term. You may work together on labs but every one turns in their own work. The labs may have problems that are more involved and are where you get to show me you know the material and how to present it. The labs will be graded on neatness, completeness - necessary work must be shown, as well as accuracy, and *must be done in pencil.* Late labs will receive a 25% penalty and accepted only up to one week late.

WEEK:	<u>Tentative weekly schedule for Math 111 Fall 2017; Meets TuTh</u>	
First: Sept 25 (dates in this column are for the Mon of the week)	<p style="text-align: center;">INTRODUCTION TO FUNCTIONS</p> <p>This week we'll be covering sections 2.1 and 2.2 from the text and working on some review. You should read the sections carefully, and start on the reading for section 2.3 before next week. HW due dates will be posted in class and on WebAssign. Please make sure you get signed up on WebAssign before the next class. Lab 1</p> <p>Review P5 due Wed; HW 2.1 due Thurs;</p>	
Second: Oct 2	<p>Sections covered this week: 2.3-2.6. Read the sections carefully before coming to class. Don't forget to work on the WebAssign Review assignments. Lab 2 (Tuition due and end of refund period on Friday)</p> <p>HW 2.2 due Tues; Review P8 due Wed; HW 2.3 due Thurs;</p>	
Third: Oct 9	<p>Finish 2.6, cover 2.7, start 2.8. Lab 3</p> <p>Rev 1.2 due Mon; HW 2.4 due Tues; Rev 1.3 due Wed; HW 2.5 due Thurs;</p>	
Fourth: Oct 16	<p>Cover 2.8. We'll be starting chapter 4 this week, as well. Read 4.1 and 4.2: EXPONENTIAL FUNCTIONS. REVIEW for the first test.</p> <p>HW 2.6 due Tues; Review 1.4 due Wed; HW 2.7 part 1 due Thurs;</p>	
Fifth: Oct 23	<p>Continue covering 4.1 and 4.2; Rev 1.9 due Tues; HW 2.7 part 2 due Tues; Lab 4 Deadline for 2.1-2.7 HW's & Review is 11:59pm on Wed. No late HW accepted.</p>	
	<p>Chapter 3 test, covers 2.1-2.7. Read 4.3 for the next class.</p>	
Sixth: Oct 30	<p style="text-align: center;">LOGARITHMIC FUNCTIONS</p> <p>Cover 4.3 & 4.4, introduce 4.5 Lab 5</p>	
Seventh: Nov 6	<p>Cover 4.5, and introduce 4.6&4.7 Lab 6 (Thurs, 11-9, last day to drop with no grade on transcript; Fri, Vet.'s Day, Holiday, college closed)</p>	
Eighth: Nov 13	<p>Wrap up 4.6&4.7, introduce Chapter 3: POLYNOMIAL FUNCTIONS - 3.1, and REVIEW for the chapter 4 test.</p>	<p>Ch 4 and section 2.8 test: Read 3.1 & 3.2 for the next class.</p>
Ninth: Nov 20	<p>Wrap up 3.1, cover 3.2, and introduce 3.6 Lab 7</p>	<p>Thurs & Fri, Nov 23&24 Thanksgiving College is closed</p>
Tenth: Nov 27	<p>Finish 3.6 and cover selected topics from 3.3-3.5</p>	
Eleventh: Dec 4	<p>Wrap up Chapter 3. REVIEW for the final! (Wed, 12-6, last day to withdraw from class, instructor signature is needed) THURSDAY IS THE LAST DAY ANY WRITTEN WORK WILL BE ACCEPTED</p>	
Twelfth: Dec 11-15	<p>FINAL (Comprehensive): Thur, Dec 14, 2016, 10:15-12:15 in HCC 190 Final Exam Policy: (https://www.cocc.edu/degrees-classes/calendar/)</p>	

Note: we will be using my lecture notes for each section covered in M111. These notes are by no means complete, nor meant to be. You will need to attend class to get the missing pieces. **You should print out the notes, which are available on my directory web page in a pdf format, or purchase the notes in the form of a course pack from the bookstore.**

Any work handed in SHOULD be presented:

- neat and in PENCIL ONLY (points will be deducted for pen, HW is excepted).
- your name -first and last, and class meeting time in the upper-most right-hand corner of the page.
- **no frilly edges.**
- Points will be deducted for incorrect notation, wrong answers, and infractions to presentation.
- **Always show any and all necessary work for full credit. Leave at least 2 spaces empty between each problem.**
- Staple more than one paper together; please do not fold the corners together or paper-clip papers together. Use both sides of the paper.

Other important dates:

Oct 9, 5pm	Tuition due and last day for full refund
Nov 10 (Fri)	Veteran's Day, College is closed
Nov 9, 5pm	Last day to drop class with no grade on transcript
Nov 23&24	Thanksgiving Holiday, College is closed
Dec 6, 6pm	Last day to withdraw, receive a "W" grade (need instructor's signature)
Dec 11-15	Finals Week

IF YOU STOP COMING TO CLASS PLEASE REMEMBER TO OFFICIALLY DROP THE CLASS OTHERWISE, YOU WILL RECEIVE AN "F" FOR YOUR GRADE

Please do not use your cell phone during class. Have the ringer turned off, and do not use it for text messaging -- it's too distracting.

Instructional Methods: Lecture, small group work, and discussion. *It is highly recommended that you read the assigned section(s) before class.* Homework is submitted through an on-line, web-based component called WebAssign (see: www.webassign.net).

NOTE: You will only learn by doing; math is not a spectator subject. You should plan on **reading the text prior to class, take notes during class, and having 10-12 hrs of study time outside of class.** I encourage you to ask questions during lectures pertinent to the topic being discussed.

Dropping a Class/Audits: The end of the 7th week of the term is the last day to change from a grade to an audit, or vice versa. This date is also the last day to drop a course without receiving a W on your transcript. After the 7th week and by the end of the Wednesday prior to finals week, you may drop a course and receive a W on your transcript only with permission from your instructor

ADA statement: "Students with documented disabilities who may need accommodations, who have any emergency medical information the instructor should know of, or who need special arrangements in the event of evacuation, should make an appointment with the instructor as soon as possible, no later than the first week of the term. Students may also wish to contact the COCC Disability Office in BEC, (541) 383-7583."

Classroom behavior: We are here to work and to learn. I expect you to be respectful of the classroom environment and your fellow students. I expect you to be on time for class, and to stay until the end, unless you have checked in with me beforehand. Specifically, I expect you to abide by the guidelines explained in the COCC Student Rights and Responsibilities Handbook. The most up-to-date version of this handbook can be found at: [Students Rights and Responsibilities](http://www.cocc.edu/Student-Life/Rights_and_Responsibilities/) available online (http://www.cocc.edu/Student-Life/Rights_and_Responsibilities/). Any violations of COCC's student rights and responsibilities policies will be reported to Office of Student Life.

COCC Non-Discrimination Policy: Central Oregon Community College is an affirmative action, equal opportunity institution. It is the policy of the Central Oregon Community College Board of Directors that there will be no discrimination or harassment on the basis of age, disability, gender, marital status, national origin, race, religion, sexual orientation, or veteran status in any educational programs, activities or employment. Persons having questions about equal opportunity and non-discrimination, please contact Human Resources for referral to the appropriate personnel, 541-383-7236.

Some Tips To Succeed

Attend class for all lectures and take notes, but if you must miss a class **be sure to read the text on the section(s) you missed.** I will not be able to give you a mini lecture in my office on the material you missed.

The general rule of thumb for college is that you should plan on studying at least 2 hours outside of class for every hour of class time; that means you should have at least 10 hours a week available for studying and homework for this class.

Do the homework daily, legibly and in correct form. You are essentially learning a new language that follows certain "grammatical" rules for presentation. If I can't read it I will not be able to grade it.

Don't do the homework at the last minute or during class! Start the home-work as soon as you can after it is assigned so that if you need help you will have time to get it from me or at the tutoring center.

Do more problems than what is assigned. The more you practice the better you'll get!

Ask questions during lecture for clarification if you are not following what is going on.

Read the book. You didn't shell out the big bucks for a paper weight!! Go through examples carefully making sure you understand how they get from one step to another and make sure you understand the definitions. Remember you can email me or call and leave a message with a return phone number (say it slowly) if you get stuck.

Make use of the free tutoring available in the tutoring and testing center in the library lower level, (check out: <http://www.cocc.edu/tutoring-and-testing/>) or SMART Lab in Grandview

See me during office hours when you have questions or visit the tutor center.

Find someone you can study with and compare homework. Get their phone number.

For exams, start studying at least a week in advance just a few hours a day instead of cramming it in the night before. Lack of sleep makes a test harder. Practice doing problems and reviewing definitions. Also, don't study up to the last minute.

Reward yourself when you do well!

On "FAILURE": *First Attempt In Learning; learning happens when you understand why you failed - try again!*

Disclaimer: *The contents of this syllabus are subject to revision at the discretion of the instructor.*