Instructor: Felix Maisch  
e-mail: maischf@math.oregonstate.edu
Meetings: MWThF 12:00 - 12:50  
phone: 541-737-7127
Room: MWF ILLC 552, Th ILLC 344  
Office: Kidder 332  
off. hrs: MWF 3 - 3:50
Text: Algebra and Trigonometry with modeling and visualization, 4th edition, Gary Rockswold
Web: people.oregonstate.edu/~maischf/
Attendance: Regular attendance will be expected, but roll will not be taken.
Honor Code: Students are expected to be familiar with Oregon State University’s Statement of Expectations for Student Conduct. Please review this statement at the following web link:
http://oregonstate.edu/admin/stucon/achon.htm
Accommodations: Accommodations are collaborative efforts between students, faculty and Disability Access Services (DAS). Students with accommodations approved through DAS are responsible for contacting the faculty member in charge of the course prior to or during the first week of the term. Students who believe they are eligible for accommodations should contact DAS immediately at 737-4098.
Course Description: This course covers the following topics: Polynomial equations and inequalities, polynomial functions and graphs, inverse functions, exponential and logarithmic functions, elementary mathematical modeling and applications
Prerequisites: MTH 095 or high school equivalent.
Schedule: See web for tentative term schedule.
Evaluation: Your grade is determined by online homework, recitation quizzes, two midterms and a final. Here is the point breakdown:
- Homework - 80 (Multiply your average homework percentage by 80 and round up.)
- Quizzes - 70 (Top seven of eight recitation quizzes worth 10 points each.)
- Midterms (100 pts each) - 200 (Oct. 16th and Nov. 6th, 7 - 8:20 PM)
- Final - 200 (Dec. 6th, 7:30 AM)

Grades will not be harder than:
I do not use blackboard. A “keep track of my own grade” sheet is included at the end of this syllabus.
Homework: Homework is online: http://www.mymathlab.com. See the instructions on the web, where there is also a list of suggested exercises from the text.
Course ID: maisch76672  
Course Name: Math111Fall201212PM
Resources: The Math Learning Center is in Kidder 108H and is a great place to drop in for help. It is open from 9 AM to 4 PM, Monday through Friday, from the second week onward.
**Tests and Quizzes:** Closed book/closed notes recitation quizzes are on the tentative term schedule. These quizzes will be drawn from questions on the suggested homework list. You are allowed a non-graphing calculator and both sides of one 3x5 inch handwritten note card for each midterm. You are allowed a non-graphing calculator and both sides of one 4x6 inch handwritten note card for the final exam.

**Bacc Core:** This course counts toward Baccalaureate Core in the Skills category of Mathematics. The following are the student learning outcomes for this category:

1. Identify situations that can be modeled mathematically.
2. Calculate and/or estimate the relevant variables and relations in a mathematical setting.
3. Critique the applicability of a mathematical approach or the validity of a mathematical conclusion.

**Specific Learning Outcomes:**

1) Solve linear, absolute value, quadratic, polynomial, radical, rational, exponential and logarithmic equations; and solve linear, polynomial, rational and absolute value inequalities.

2) When given a symbolic relation between two quantities, formulate the correct equation or inequality based on the language of the question, solve the equation or inequality and then decide if the result from that process is an reasonable answer to the initial question.

3) Correctly interpret and use symbolic/numeric/graphic representations of relations.

4) Apply the concepts of domain, range, translations, reflections, and inverses to given functions.

5) Recognize and correctly state symbolically functions whose graphs are given and that are related through translations and/or reflections.

6) Investigate connections between roots, factors, graphs and symbolic representations of polynomial functions, and be able to create polynomial functions when given information about the functions roots and/or factors and/or graph.

7) Develop, recognize and extract correct information from the standard forms for equations of circles, lines, and parabolas.

8) Find and list symbolically the vertical, horizontal, inclined asymptotes of rational functions expressed symbolically, graphically and numerically.

9) Translate the language of direct and inverse relations into algebraic relationships, and then answer questions based on that relationship.

10) Develop and use models from linear, exponential and quadratic data or graphs.
Write down your scores!

(1) Quiz 1 : .....out of 10

(2) Quiz 2 : .....out of 10

(3) Quiz 3 : .....out of 10

(4) Quiz 4 : .....out of 10

(5) Quiz 5 : .....out of 10

(6) Quiz 6 : .....out of 10

(7) Quiz 7 : .....out of 10

(8) Quiz 8 : .....out of 10

(9) Best 7 of 8 Quizzes : .....out of 70

(10) Homework: .....out of 80

(11) Midterm One: .....out of 100

(12) Midterm Two: .....out of 100

(13) Final: .....out of 200