Syllabus for: Math 120 – Intermediate Algebra

Semester & Year:	Spring 2014
Course ID and Section Number:	E5138
Number of Credits/Units:	4
Day/Time:	MTWTh 2:50 – 3:55
Location:	SC 204
Instructor's Name:	Chris Panza
Contact Information:	Office location and hours: SC 216G, TTh 1:30 – 2:30 Phone: 476-4100 x4856 Email: chris-panza@redwoods.edu

Course Description (catalog description as described in course outline):

A course in which functions are investigated graphically, numerically, symbolically and verbally in real-world settings. Linear, quadratic, polynomial, rational, radical, exponential, and logarithmic equations and functions are explored. Technology is integrated into all aspects of the course.

Student Learning Outcomes (as described in course outline) :

1. Evaluate and interpret general functions symbolically, numerically, and graphically.
2. Produce an accurate graph of each function type introduced in the course, identifying and plotting all salient features.
3. Demonstrate appropriate use of technology in analyzing the behavior of functions presented in the course.
4. Use mathematical models to analyze and interpret real-world situations.
5. Use sound mathematical writing and appropriate use of symbolism in presenting solutions of mathematical exercises and applications.

Special accommodations: College of the Redwoods complies with the Americans with Disabilities Act in making reasonable accommodations for qualified students with disabilities. Please present your written accommodation request at least one week before the first test so that necessary arrangements can be made. No last-minute arrangements or post-test adjustments will be made. If you have a disability or believe you might benefit from disability related services and may need accommodations, please see me or contact Disabled Students Programs and Services. Students may make requests for alternative media by contacting DSPS.

Academic Misconduct: Cheating, plagiarism, collusion, abuse of resource materials, computer

misuse, fabrication or falsification, multiple submissions, complicity in academic misconduct, and/ or bearing false witness will not be tolerated. Violations will be dealt with according to the procedures and sanctions proscribed by the College of the Redwoods. Students caught plagiarizing or cheating on exams will receive an "F" in the course.

The student code of conduct is available on the College of the Redwoods website at: http://redwoods.edu/District/Board/New/Chapter5/AP%205500%20Conduct%20Code%20final%2002-07-2012.pdf

Additional information about the rights and responsibilities of students, Board policies, and administrative procedures is located in the college catalog and on the College of the Redwoods homepage.

College of the Redwoods is committed to equal opportunity in employment, admission to the college, and in the conduct of all of its programs and activities.

MATH 120 – Intermediate Algebra

E5138 • Spring 2014
SC 204 • MTWTh • 2:50 – 3:55pm

Instructor: Chris Panza
Email: chris.panza.cr@gmail.com
Website: http://msemac.redwoods.edu/∼cpanza/
Office: SC 216G or SC 212
Office Hours: MW 1:30 – 2:30pm
Math Lab: T 4:00 – 5:00pm, W 12:30pm – 2:30pm

Cell Phones

Cell phones are a nuisance and distraction for you, me, and your fellow students. Keep them on silent (or off) and put away for the duration of class. The use of cell phones during class is prohibited.

Prerequisite

Math 380 with a grade of C or better or appropriate score on the assessment test.

Course Description A course in which functions are investigated graphically, numerically, symbolically and verbally in real-world settings. Linear, quadratic, polynomial, rational, radical, exponential, and logarithmic equations and functions are explored. Technology is integrated into all aspects of the course.

Course Objectives

- To read, write, and speak accurately about mathematical ideas using correct mathematical notation.
- To apply the mathematics learned to real-world problems and applications.
- To use graphs and the graphing calculator to explore mathematical concepts and to verify work.
- To demonstrate competency in the required prerequisite skills for all transfer level math courses.
- To demonstrate the characteristics of an effective learner, such as note-taking, critical reading, etc.
- To explain the concept of function, identify the characteristics of different classes of functions, and use functions to solve problems in mathematics.
- To demonstrate the algebraic skills that will support success in the other outcomes.

Textbook

Intermediate Algebra Textbook, College of the Redwoods, Department of Mathematics. Available on disk or online (http://msenux.redwoods.edu/IntAlgText). You can also buy a printed copy from Lulu.com or the bookstore. Check out your options at http://msenux.redwoods.edu/mathdept/courses/MathTextbooks.html.

Calculators

You are required to have a graphing calculator for this course. I recommend a TI-83, TI-84 or TI-89. I will be using a TI-84 in class. Calculators are available for rent from the math department for $20/semester; pay at the cashiers office and pick it up from Betsy Buchanan in the ASC. Also, check local pawn shops, Craigslist, Ebay, etc. Cell phones will not be allowed to be used as a calculator.

Grading

Homework		35%	90 – 100%	A
Part (A)	30%		80 – 89%	B
Part (B)	5%		70 – 79%	C
Quizzes		35%	60 – 69%	D
Exams		30%	Below 60%	F

I will assign +/- grades for the top and bottom 3% of each category. I always round UP to the nearest whole percent.

Homework

All work in homework is a worthwhile investment. You are encouraged to work together on your homework assignments. There are two parts to each assignment. Part (A) will consist of 5 problems, worth 10 points (2 points per problem), to be neatly presented and organized. Part (B) will be worth 2 points for the completion of most or all of the suggested practice problems. Turn in Part (A) and Part (B) SEPARATELY, labeling each appropriately. Homework will not be accepted late except for a valid reason (e.g. sick, family emergency, etc.). At the end of the semester the three lowest homework scores (Part (A)) will be dropped from your grade.

There are also extra assignments on OPTIMATH that you can use for more practice. They will not count toward your grade.

Use an $8\frac{1}{2} \times 11$ sheet of paper, staple each individual assignment separately in the upper left corner and include your full name, homework number, and instructors name in the upper right hand corner. Use only pencil and be sure all problems are neat, readable, and in order even if you must rewrite it. Begin with the original expression/equation from the book and work in a vertical fashion with each step performed on a separate line. Include space between problems and no more than two columns of work on a sheet of paper. Always show equality where appropriate and clearly indicate your answers. Be sure to label answers such that there is sufficient context to explain the answer; a number by itself means nothing. When graphing, you must use graph paper and include the graph, in order, with the problem. Use a straight-edge for all straight lines and label your axes and all points of interest.

Heres an example of good layout:

Ima Student
Math 120
HW 1.2 (A)
Panza

HW 1.2: 4, 11, 20, 41

4. Solve $-26x + 84 = 48$

$$\begin{aligned} -26x + 84 &= 48 \\ -26x &= 36 \\ x &= -\frac{36}{26} \end{aligned}$$

11. Solve $19x + 35 = 10$

$$\begin{aligned} 19x + 35 &= 10 \\ 19x &= -25 \\ x &= -\frac{25}{19} \end{aligned}$$

20. Solve $-8 - 8(x - 3) = 5(x + 9) + 7$

$$\begin{aligned} -8 - 8(x - 3) &= 5(x + 9) + 7 \\ -8 - 8x + 24 &= 5x + 45 + 7 \\ -8x + 16 &= 5x + 52 \\ -13x &= 36 \\ x &= -\frac{36}{13} \end{aligned}$$

41. Solve $Ax + By = C$ for y

$$\begin{aligned} Ax + By &= C \\ By &= C - Ax \\ y &= \frac{C - Ax}{B} \end{aligned}$$

Quizzes
Each Tuesday and Thursday there will be a short quiz during the first 15 minutes of class. These quizzes will include material on the homework assignments you have turned in since the last quiz. Each quiz will be worth 10 points. Be sure to have a pencil and your calculator; you will not be allowed to share a calculator or use your cell phone. At the end of the semester the three lowest quiz scores will be dropped from your grade. There are no make-up quizzes and no extra time is allowed; a missed quiz will count as one of your lowest scores and will be dropped.

Exams
There will be one Midterm (100 points) and a cumulative Final (200 points). The Midterm and Final will be composed of a selection of the quiz questions. All exams are closed book and individual. Be sure to bring a sharp pencil and your calculator. Always clearly rewrite all applicable steps in the space provided on the exam; never refer to scratch paper or backs of pages. There are NO make-ups. In case of a severe conflict, arrangements can be made to take the exam early.

Midterm: Thursday, March 13, 2014, 2:50pm
Final: Monday, May 12, 2014, 3:15pm

Calendar
The course calendar can be viewed online and will be updated regularly. It contains a schedule of what we will cover and all due dates for homework, quizzes, and exams.

Important Note: Anything not done in pencil will not be graded!

Attendance
Attendance is very important to your overall understanding of the concepts presented in this course. You should attend all class sessions, arriving on time and leaving after the class has ended. I encourage participation and welcome all questions. If you must miss class, check with the calendar and fellow students to see what you missed.

Withdrawal After Census (WAC) Policy
A student who is absent from class for the amount of time equal to two weeks of classes, will be withdrawn from the course, unless there are extenuating circumstances that are communicated to the instructor in a timely manner. This "faculty withdrawal" can occur between Week 4 and Week 10 of the semester.

Cheating
Cheating is a very serious offense and is dealt with in a serious way. Dont do it.

Assistance
If you have a documented disability or believe you could benefit from any of the services offered by Disabled Student Programs & Services (DSP&S), please contact the DSP&S office (Building T20, behind Bookstore) at 476-4280.

Tutoring
I encourage you all to enroll in MATH 120L for a 1/2 or 1 unit of credit to obtain supplementary help. It is a Credit/No Credit course that will not affect your GPA, but is counted among the 12 unit minimum for financial aid. You can sign up for a no-credit version of the Math Lab, "GUID-205-E5741 Supervised Tutoring".

Other
Please turn off and remove all portable audio systems before entering class. Please be respectful of your fellow classmates; refrain from using foul, crude, or disrespectful language in the classroom. This syllabus can be changed by me at any time. Canceled Class Hotline (Math & Science only): (707) 476-4210 #5