

Semester 1

Monday, Wednesday, Friday

Block 3

Math 95

Intermediate Algebra
Semester 1

Instructor: Shiloh Powers

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Class Website: <http://a3shiloh.weebly.com>

Phone: 541-744-6728

Office: A³ Staff Room

Office Hours: M, W 2:45- 4:00 and T, TH 1:05-4:00

Course Description

Math 95 is a five-credit college class that we will cover over the course of the year. In this class we will review chapters 1 through 7 throughout the first six weeks, which include order of operation, exponents, linear equations, inequalities, graphing, solving systems of equations and polynomials.

*Exam 1 will cover chapters 1,2 and 4, which cover simplifying algebraic expressions, graphing functions and inequalities.

*Exam 2 will cover multiplication and factoring polynomials from chapter 5.

*The Final Exam will cover rational expressions, functions and equations in chapter 6.

Grading

You will be graded as follows

- Homework 10%
- Homework Quizzes 20%
- Tutoring 10%
- Exam 1 15%
- Exam 2 15%
- Final Exam 30%

Homework: Homework will be collected on the last class day of every week. At the beginning of class you will be given a homework quiz with a problem almost identical to one of your homework problems that week. You may use your homework as notes. When finished with the quiz, staple the homework to the quiz and turn it in. You will get one grade for completing the homework and one grade for the quiz. All homework must have a complete heading (your name, class title and class time), be legible and easy to read, and have all work shown. Credit will not be given for assignments where work is not present. Late homework can be turned in up until the last exam for up to a B grade.

Class Participation: Although I will not be grading attendance specifically, you are required to attend every class unless pre-arranged with me. In case of emergency, sickness or other unforeseen circumstances, please contact me as soon as possible to get missing work.

Exams: For exams you will be given one hour of the class period to work. If additional time is needed, please see me at the end of class to make arrangements. For each exam you will be permitted one side of a 3"x5" notecard for notes, equations and examples that may be useful on the exam. Please staple this card to the exam when finished. Corrections will also be allowed for every exam to increase the score by up to one letter grade.

If you miss a test for any reason, it can be made up within a week of the original test date. Please come see me if more time is needed. I will determine this on a case-to-case basis.

Materials

Text: Introductory and Intermediate Algebra by Blitzer, 5th edition.

A composition book for this class only.

Recommended: A graphing calculator such as a TI 83+

Exams

Exam #1: September 25th
Chapter 1,2 and 4

Exam #2: October 18th
Chapter 5

Final Exam: December 4th
Cumulative including chapter 6

School Policies

The prerequisite for Math 95 is either a grade of B- or better in Algebra 2, MTH 65 or MTH 70 within the past year or passing a placement test through the testing office.

If you need support or assistance because of a disability, you may be eligible for academic accommodations through Disability Services. For more information, contact Disability Services at (541) 463-5150 (voice) or 463-3079 (TTY), or stop by Building 1, Room 218.

Grading Break Down

98-100%	A+
93-97%	A
90-92%	A-
88-89%	B+
82-87%	B
80-81%	B-
78-79%	C+
72-77%	C
70-71%	C+
0-69%	I

To stay consistent with A³ policies, every student receiving below a 70% will receive an incomplete in the course. To make up this incomplete, students will be required to make up missing assignments or redo low scoring assignments.

Resources

Class Website: The class website <http://a3shiloh.weebly.com> will have all assignments, an up to date course calendar, and announcements posted. There is also a homework forum available for students to ask me, as well as each other for help.

Khan Academy: For extra lectures and practice, khan academy is a great resource. <http://www.khanacademy.com>

Course Objectives

1. Use prerequisite concepts and skills of the arithmetic of real numbers.
2. Manipulate and evaluate algebraic expressions.
3. Solve linear equations and apply linear equations to problems.
4. Solve and graph a linear inequality, and use interval notation.
5. Graph linear equations on a rectangular coordinate system.
6. Write the equation of a line.
7. Use function notation, and distinguish between input and output.
8. Solve a linear 2-by-2 system.
9. Perform operations involving polynomials.
10. Factor polynomials.
11. Solve polynomial and quadratic equations by factoring.
12. Simplify and perform operations involving rational expressions.
13. Solve equations containing rational expressions.
14. Simplify and perform operations involving radicals and rational exponents.
15. Solve equations involving radical expressions.
16. Write the square root of a negative number in term of i , and operate with complex numbers.
17. Solve quadratic equations by taking square roots, by completing the square, and by the quadratic formula.
18. Given a quadratic function find its vertex, axis of symmetry, intercepts, and graph the parabola.
19. Evaluate an exponential function.
20. Translate between exponential and logarithmic notations.
21. Model and solve application problems.
22. Use a scientific calculator when appropriate and in an efficient manner.

Tentative Course Schedule

Semester 1, 2013

Week	Monday (90 min)	Wednesday (90 min)	Friday (90 min)
1 Sept 9-13	Intro to class Syllabus Placement Tests Review	Chapter 1 Review	Afternoon HW #1 Due HW Quiz #1 Chapter 2 Review
2 Sept 16-20	Section 4.1	Section 4.2/4.3	Morning HW#2 Due HW Quiz #2 Section 4.5 Tutoring Logs Due
3 Sept 23-27	Review Chapters 1,2 and 4	Exam #1	Afternoon Section 5.1 Project Intro
4 Sept 30-Oct 4	Section 5.2	HW#3 due HW Quiz #3 Project work time Tutoring Logs Due	No Class
5 Oct 7-11	Project Presentations	HW#4 due HW Quiz #4 Section 5.6	No Class
6 Oct 14-18	Section 5.7	Review	Afternoon Exam #2 Tutoring Logs Due
7 Oct 21-25	Section 6.1	Section 6.1 Continued	Morning HW#5 due HW Quiz #5 Section 6.2
8 Oct 28-Nov 1	Section 6.3	Section 6.3 Continued	Afternoon HW#6 due HW Quiz #6 Section 6.4 Tutoring Logs Due
9 Nov 4-8	Section 6.4 Continued	HW#7 due HW Quiz #7 Section 6.4 Continued	No Class

Week	Monday (90 min)	Wednesday (90 min)	Friday (90 min)
10 Nov 11-15	Furlough Day No Class	HW#8 due HW Quiz #8 Section 6.5 Tutoring Logs Due	No Class
11 Nov 18-22	Section 6.6	Section 6.6 Continued	Afternoon HW#9 due HW Quiz #9 Section 6.7
12 Dec 1-6	Furlough Day No Class	Review	No Class
13 Dec 9-13	Final Exam	Mini Project Work Time	Afternoon Mini Project Presentations Tutoring Reflection