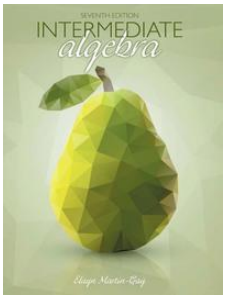
Course Information and Syllabus

Beena Ramachandran beenarama@gmail.com **Phone:** (email preferred)	**Office Hours**: T/Th: 30 min after class and extra office hours as needed.

Class Meeting Times/Place: T/Th: 5:30 pm – 7: 20 pm Room Number: 239	 **Textbook:** Intermediate Algebra, by K. Elayn Martin-Gay, 7th ed. ISBN-0-13-419617-1 (At UConn Coop packaged with Solution Manual)

Calculator: A simple four-function calculator will be allowed on tests.

Homework: Individual homework will be assigned after every section, collected next class. Homework assignments will consist of the individual assignments from your textbook listed in the Syllabus Table below. The majority of homework assignments will be done outside of class, but we will devote class time each week to questions related to difficulties in the homework. You are encouraged to work with other students in this class on all your homework assignments.

***Exams Schedule*:** There will be three in-semester, in-class exams and a Final Exam. None is strictly cumulative, but there will be overlap of material between the exams. NO MAKE-UP EXAMS unless there is a very serious emergency for which you provide proof. Please see schedule below for exam dates.

Grading Policy:

Homework - 10%
Projects – 10%
Four Exams - 20% each (Total = 80%)

Special Days:

First Day of Classes: Tuesday, August 27, 2019 **Last Day of Classes: Thursday, December 7, 2019**	**Thanksgiving Recess:** **No Classes: November 25 – November 29, 2019**

Syllabus Outline and Individual Homework Assignments

Each week: 2 to 4 sections from the text-book, and 1 or 2 group projects selected from the table below:

Date	Section	Topic	Individual Homework Assignments
8/27	**Introduction**		Math-autobiography
	Chapter 1		
	1.2	Algebraic expressions and sets of numbers	**HW 1.2:** 1, 5, 7, 31, 33, 35, 59, 61, 67, 77, 83, 87
8/29	1.3	Operations with real numbers	**HW 1.3:** 1, 9, 11, 17, 21, 27, 31, 35, 37, 45, 47, 53, 67, 73, 79
9/3	1.4	Properties of real numbers	**HW 1.4:** 3, 9, 15, 17, 19, 45, 51, 53, 61, 83, 87, 99
	Chapter 2		
9/5	2.1	Linear equations in one variable	**HW 2.1:** 1, 11, 13, 17, 23, 35, 43
9/10	2.2	Introduction to problem solving	**HW 2.2:** 1, 5, 11, 13
	2.3	Formulas and problem solving	**HW 2.3:** 1, 5, 53
9/12	2.4	Linear inequalities and problem solving	**HW 2.4:** 1, 3, 7, 11, 43, 45, 55, 63
9/17	2.6	Absolute value equations	**HW 2.6:** 5, 9, 15, 21, 53, 61
9/19	3.1	Graphing equations (include material from 3.3) PROJECT 1: Calculate your income	**HW 3.1:** 1, 3, 5, 7, 9, 17, 19, 27, 33, 37
9/24	3.2	Introduction to functions (Exam Review)	**HW 3.2:** 1, 3, 11, 23, 25, 29, 35, 37, 55, 57, 59, 61
9/26	**Exam 1**	**Exam 1 (Chapters 1 & 2)**	
	Chapter 3		
10/1	3.4	The slope of a line	**HW 3.4:** 5, 19, 25, 27, 37, 39, 61, 63, 67, 91
10/3	3.5	Equations of lines	**HW 3.5:** 1, 13, 25, 41, 43, 47
	Chapter 4		
10/8	4.1	Linear equations in two variables	**HW 4.1:** 1, 3, 7, 13, 17, 21
10/10		PROJECT 2: Life expectancy OR Cigarettes	
	Chapter 5		
10/15	5.1	Exponents	**HW 5.1:** 1, 7, 13, 19, 27, 43, 63
10/17	5.2	More Exponents , (Exam Review)	**HW 5.2:** 1, 7, 9, 19, 39, 55
	5.3	Polynomials and polynomial functions	**HW 5.3:** 17, 23, 37, 39, 43
	Exam 2 - Review	Chapters 3 and 4 only	
10/22	Exam 2	**Exam 2 (Chapters 3 and 4)**	
10/24	5.4	Multiplying polynomials	**HW 5.4:** 1, 5, 19, 23, 27
	5.5	The greatest common factor	**HW 5.5:** 3, 9, 11, 13
10/29	5.6	Factoring trinomials	**HW 5.6:** 15, 25, 27, 47
	5.7	Factoring special products **PROJECT 3: Free Falling from High Bridges	**HW 5.7:** 1, 9, 39
10/31	5.8 (partial)	Solving equations by factoring and problem solving) Review for Exam 3	**HW 5.8:** 5, 9, 13
11/5		**Exam3 (Chapter 5)**	

Date	Section	Topic	Individual Homework Assignments
11/7		**Make up time (for bad weather/ missed class)**	
	Chapter 7		
11/12	7.1	Radicals and radical functions	**HW 7.1:** 3, 9, 19, 25, 39, 43, 45, 53, 75
11/14	7.2	Rational exponents	**HW 7.2:** 1, 11, 19, 29, 39, 41, 47, 51
	7.6 (partial)	Radical equations	**HW 7.6:** 53, 59
	Chapter 9		
11/19	9.3	Exponential functions PROJECT 4: Cyber Monday	**HW 9.3:** 1, 5, 18, 20, 21, 27, 35
11/21	9.5	Logarithmic functions	**HW 9.5:** 29, 31, 41, 45, 51, 69
12/3	9.6	Properties of logarithms	**HW 9.6:** 1, 9, 17, 21, 35, 43, 53, 55, 57
		Complete project 4 and hand in	
12/5	**Final Exam Review**	Final Exam review And make up class (if needed)	
	Final Exam	**Final Exam Chapters 7 and 9 only**	

- Ideally, students should complete a total of four projects.
- Students should hand in at least three projects if four cannot be completed.
- Students will have two weeks to hand in project.