

Following is a list of sections that must be covered and will be included on the Midterm and Final Exams. Other sections may be covered as review or instruction at the instructor's discretion.

Topics		Sections	Problems	Week
Factoring	5.4a	To factor out the Greatest Common Factor	1-20	2.0
	5.5a	To factor a trinomial of the form $x^2 + bx + c$	1-28	
	5.5b	To factor $ax^2 + bx + c$	29-66	
	5.6b	To factor the difference of two squares	29-46	
	5.6c	To factor the sum or difference of two cubes	79-98	
	5.7a	To factor a variety of polynomials	1-4, 6, 8-11, 13-17, 19-24, 26, 29-34, 36, 39-41, 47-52	
	5.8a	To solve an equation by factoring	1-30	
Functions	3.5b	Identify the domain and range of functions	1-10, 21-24	1.5
	3.5c	Determine if a relation is a function	11-20	
	3.6a	Evaluate functions using functional notation	1-26, 33-40	
	3.7a	To perform operations on functions	1-30	
	3.7b	To find the composition of two functions	31-36	
Rationals	6.1a	Reducing rational expressions to lowest terms	1, 2, 5-32, 41-52	2.5
	6.1b	Find function values for rational expressions	3, 4, 57-64	
	6.3a	To multiply and divide rational expressions	1-36, 45-64	
	6.4a	To add or subtract expressions with a common denominator	11-18	
	6.4b	To add or subtract rational expressions	25-64	
	6.5a	To simplify a complex fraction	7-22, 27-34, 43-52	
	6.6a	To solve a fractional equation	1-16, 33-58	
*****		MIDTERM --- 25% of course grade	*****	0.5
Radicals	7.1b	To simplify expressions with rational exponents	33-56	2.0
	7.3a	To simplify radical expressions	1-34, 41-70	
	7.4a	To add or subtract radical expressions	1-26, 39-46	
	7.5a	To multiply radical expressions	1-30, 35-40, 43-48	
	7.5b	To divide radical expressions	49-88	
	7.6a	To solve a radical equation	1-18	
Complex Numbers	7.7a	Simplify complex numbers	1-8	1.0
	7.7b	Simplify powers of i	9-14	
	7.7d	To add or subtract a complex number	25-40	
	7.7e	To multiply complex numbers	41-66	
	7.7f	To divide complex numbers	67-78	
Quadratic Equations	8.1a	To solve a quadratic equation by taking square roots	1-16	2.0
	8.1b	To solve a quadratic equation by completing the square	17-44	
	8.2a	To solve a quadratic equation by using the quadratic formula	1-14, 17-18, 23-26	
	8.5a	Graph parabolas	1-28	
	8.5b	Solve application problems with quadratics	29-31, 33-36	
Circles	10.1c	To find the equation of a circle and then graph the circle	13-30	1.0
	10.1b	To write the equation of a circle in standard form	31-36	
Exponential and Logarithmic Functions	9.1a	To evaluate an exponential function	1-8	1.0
	9.1b	To graph an exponential function	9-16	
	9.3a	Convert between logarithmic and exponential forms	1-36	
	9.3c	To graph a logarithmic function	37-44	
*****		FINAL EXAM --- 25% of course grade		*****

For the Winter and Summer sessions, there are no departmental midterms or final exams. The instructor is responsible for 100% of the student's grade.