MAT 137 Intermediate Algebra

Text: *Elementary & Intermediate Algebra* (4th edition) by Carson & Jordan
(MyMathLab student access required)

Prerequisite: Math 095 or Basic Skills Assessment

Course Description: A review of the fundamental operations of algebra and an extensive study of relations, functions, exponents, radicals, quadratic equations and inequalities, systems of linear equations and inequalities in two variables, and absolute value equations and inequalities. This course is recommended for students who have some knowledge of elementary algebra but require improved skills as a prerequisite to further study in mathematics and science.
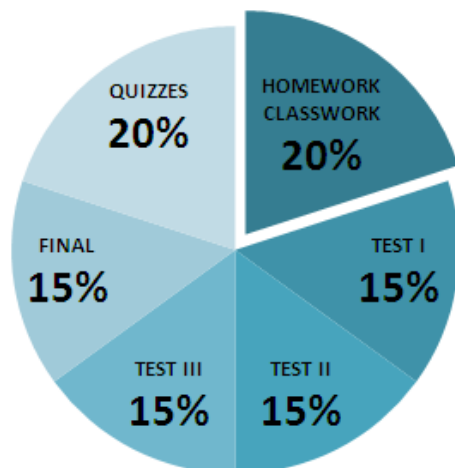
Objectives: During this course students should develop:
1. The ability to factor polynomials and add, subtract, multiply and divide rational expressions
2. The ability to linear equations, linear inequalities, literal equations, absolute value equations and inequalities, systems of equations and inequalities.
3. The ability to understand the relationship between radical and exponent notation and solve equations involving either,
4. The ability to write and graph linear equations in two variables and analyze such graphs
5. The ability to identify functions and find their domain and range,
6. The ability to understand the graphs of functions and find inverse functions.
7. The ability to solve quadratic equations, equations involving exponents and logarithms.
8. The ability to translate exponential expressions to and from logarithmic equivalents.

Special Needs: If a student needs to request academic adjustments for a disability, they must meet with Office of Disability Services staff (from Student Affairs or Student Services Office) as soon as possible. Documentation of the disability will be needed. The Office of Disability Services will confirm a student's eligibility for recommended services and accommodations.

Homework: There will be regular homework assignments in this course. These assignments will be collected periodically and are your preparation for quizzes, participation exercises and exams.

Grading: Your final grade in this course will be determined as follows

The course will have a total of four tests. The highest three scores will each contribute toward 15% of your final grade and the fourth test score can be used to contribute to quizzes and homework/class work. Up to an additional 5% will be awarded at the instructor's discretion, based upon class participation and overall effort. A penalty of up to 10% can assessed based on disrespectful or disruptive behavior in class. As the class must cover a lot of material this semester there is very little time to catch up if you fall behind. Please keep this in mind as you allocate time to your studies.

Participation: Active participation and engagement are required to succeed in this course. As the class is paced to cover all course objectives in a semester it is the student's responsibility to budget their time appropriately and avoid falling behind on assignments. It is paramount that students always exercise their rights to ask questions and make use of office hours and tutoring to get one on one attention. There will be no make-up quizzes or exams offered without evidence of compelling circumstances. It is the student's responsibility to communicate these circumstances to the instructor as soon as possible, preferably before class. Behavior disruptive or disrespectful to classmates or the instructor will result in disciplinary action and grade penalties. Behavior undermining academic integrity will result in disqualified assignments, quizzes or exams and disciplinary action.

Tentative Schedule:

JAN						
SUN	MON	TUE	WED	THUR	FRI	SAT
			1	2 Tuition Due Date	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20 MLK Jr Day (college closed)	21 Withdraw (full refund)	22 First Day of Classes Introduction Function Notation & Graphing I	23	24	25
26	27 Introduction Function Notation & Graphing II	28	29 3.6 Polynomial Review I	30	31	

FEB						
SUN	MON	TUE	WED	THUR	FRI	SAT
						1
2	3 8.1 8.2 Polynomial Review II	4 Last Day to Add Class withdraw partial refund	5 8.3 **Review I**	6	7	8
9	10 **TEST I**	11	12 7.1 7.2	13	14 President's Recess (college open)	15
16	17 President's Day (college closed)	18	19 7.3 7.5	20	21	22
23	24 7.4	25	26 **Review II**	27	28	29

MAR

SUN	MON	TUE	WED	THUR	FRI	SAT
1	2 **TEST II**	3	4 Exponents, Powers & Roots	5	6	7
8	9 9.1(a)	10	11 (exercises)	12 (QV@WT no classes)	13	14
15	16 Spring Recess (college open)	17	18	19	20	21
22	23 9.1(b)	24	25 9.2	26	27	28
29	30 9.4 9.5	31				

APR

SUN	MON	TUE	WED	THUR	FRI	SAT
			1 (grad app due) 9.6 **Review III**	2	3	4
5	6 **TEST III**	7 Withdraw (receive W)	8 9.7 10.1(a)	9	10 Day of Reflection (college closed)	11
12	13 10.1(b)	14	15 10.2	16	17	18
19	20 10.3	21	22 10.4 **Review IV**	23	24	25
26	27 **TEST IV**	28	29 11.1	30		

			MAY			
SUN	MON	TUE	WED	THUR	FRI	SAT
31					1	2
3	4 11.2 11.3	5	6 Final Review	7 (Reading Day)	8 Last Day of Classes	9
10	11 Final Exams Begin	12	13	14	15	16
17 Final Exams End	18	19	20	21	22	23
24	25 Memorial Day (college closed)	26	27	28 Commencement	29	30