

Math 137 Intermediate Algebra Syllabus

COURSE K137, 30172 SECTION M06

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COURSE DESCRIPTION: This course extends the basic algebra skills acquired in Math 095 or its equivalent. The topics include: linear equations, functions, applications of systems of equations, rational expressions and equations, operations on radicals, rational exponents, quadratic equations exponential and logarithmic equations and basic right triangle trigonometry.

PREREQUISITE: The prerequisite for this course is a working knowledge of basic algebra including operations on signed numbers, solving first degree equations and inequalities, operations on polynomials, factoring polynomials and graphing. In addition you must understand the basic principles of fractions.

TRANSFERABILITY: This course is generally not transferable to four-year colleges although some schools will accept it as an elective if they offer a similar course. The skills in this course however are needed in all transferable mathematics courses.

TEXTBOOK: The required textbook for the course is INTERMEDIATE ALGEBRA: A Graphing Approach by K. Elayn Martin-Gay. The supplementary Student Solution Manual is not required but is recommended if you expect to have difficulty with the course.

GRAPHING CALCULATOR: A graphing calculator is required in this course and will be integral to our work throughout the semester. I will be demonstrating techniques in class using a TI-83 model but any calculator with equivalent features would be acceptable. If you are unfamiliar with the operation of the graphing calculator it would be easier to have a model similar to the TI-83, as each calculator has different ways of accessing and displaying functions and graphs.

ATTENDANCE: Attendance will be taken every class and those who attend class demonstrate that they are trying and will be given benefits accordingly. Tardiness is not acceptable, as it disrupts the rest of the class. If you are unable to make the class on time every day you should schedule a different class time.

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HOMEWORK: An assignment will be given at the end of each class. You are expected to have completed it by the next class. Solutions will be reviewed in class.

TESTS & QUIZES: There will be approximately six tests and several quizzes. Each quiz is worth 100 points. Each test is equivalent to two quizzes.

MAKE-UP TESTS: If you miss a quiz or a test you must make it up by the next class. Failure to make up a quiz or a test will result in an "F" grade on that quiz or test.

GRADES: One quiz grade will be dropped. The rest of the grades will be weighted and averaged to give you your final grade.

OFFICE HOURS: Prior to class or by appointment.

COURSE SCHEDULE:

Day	Sections	Assignments
M 8-27	1.5	PG 53-54, 4-80 E4
W 8-29	1.6, 1.8	PG 61-63, 5-40 E5; PG 85-88, 5-50 E5
M 9-3	Labor Day	
W 9-5	Quiz 1, 2.5	PG 188-190, 4-80 E4
M 9-10	Trigonometry 1	Handout, 2-30 EVEN
W 9-12	Trigonometry 2	Handout, 1-31 ODD
M 9-17	Review	
W 9-19	Test 1	
M 9-24	3.2, 3.3	PG 278-279, Chapter Review 1-32
W 9-26	Quiz 2, 4.1	PG 294-295, 3-69 E3
M 10-1	4.2, 4.3	PG 302-303, 4-48 E4; PG 312-313, 1-20 E4
W 10-3	Review, 5.1	PG 354-356, 5-90 E5
M 10-8	Columbus Day	
W 10-10	Test 2	
M 10-15	5.2, 5.3	PG 362-363, 5-75 E5; PG 375-376, 5-60 E5
W 10-17	5.4, Quiz 3	PG 377-378, 5-80 E5

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M 10-22	5.5, 5.6	PG 394-395, 4-80 E4; PG 404-405, 10-90 E5
W 10-24	5.7, 5.8	PG 411-412, 5-80 E5; PG 426-427, 5-80 E5
M 10-29	Review, 6.1	PG 448-450, 4-80 E4
W 10-31	Test 3	
M 11-5	6.2, 6.3	PG 457-458, 5-60 E5; PG 465-466, 5-60 E5
W 11-7	6.6, 6.7	PG 516-517, 78-87, 100-125 E5
M 11-12	Review, 7.1, 7.2	PG 529-530, 5-80 E5; PG 538-539, 5-80 E5
W 11-14	Test 4	
M 11-19	7.3, 7.6	PG 545, 5-60 E5; PG 568-570, 5-70 E5
W 11-21	Thanksgiving	
M 11-26	Review, 8.1	PG 602-603, 5-60 E5
W 11-28	Test 5	
M 12-3	8.2, 8.3	PG 614-615, 5-60 E5; PG 624-625, 5-60 E5
W 12-5	8.5, 8.6	PG 643-644, 5-60 E5; PG 651-653, 5-60 E5
M 12-10	9.3, 9.4	PG 700, 4-40 E4; PG 708-709, 5-60 E5
W 12-12	9.5, 9.6, 9.7	PG 715, 5-60 E5; PG 723, 5-60 E5
M12-17	Test 6	
W 12-19		