

MAT 150 – 18D1 (58554)
ALGEBRA
Fall 2016

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Course Homepage:	The Blackboard online system will serve as the class homepage: http://elearning.kctcs.edu			
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COURSE DESCRIPTION: Includes selected topics in algebra and analytic geometry. Develops manipulative skills and concepts required for further study in mathematics. Includes linear, quadratic, polynomial, rational, exponential, logarithmic and piecewise functions; systems of equations; and an introduction to analytic geometry. (Students may not receive credit for both MAT150 and any other College Algebra or Precalculus course. Credit not available on the basis of special exam.) Lecture: 3 credits (45 contact hours). **Prerequisites:** 1. Math ACT score of 22 or above, 2. Math ACT score of 19-21 with concurrent MAT 100 workshop, 3. Successful completion of Intermediate Algebra, MAT 126, or equivalent, or 4. KCTCS placement exam recommendation.

NOTE: MAT 150 can be used as a repeat option for MA 109, however, an official Repeat Option form must be completed and submitted to the Records Office by the student.

COURSE INFORMATION: Information on the [Our Courses](#) page of the Mathematics & Statistics website contains information about your course, such as the description, competencies, objectives, and outline. Select the *Course Information* link next to your course to find your specific course information.

TEXTBOOK/SUPPLIES

- *College Algebra* (10th edition), by Sullivan

CALCULATOR: A scientific or graphing calculator (no TI-89 or above nor TI-Nspire) will be necessary during Chapter 6 and may be used throughout the semester in class, on homework and during exams. Having notes and formulas programmed into calculators is considered cheating. The memory of graphing calculators used in class must be cleared before exams and apps such as ZoomMath must be removed. Cell phones and computers may not be used as calculators.

CELL PHONE POLICY: Cell phones must be turned off and put away unless you have a *serious* emergency. If you have a serious emergency, keep the phone on silent mode. No texting during class.

GRADING PROCEDURES

ATTENDANCE: Regular attendance is necessary for success in any mathematics course; therefore, attendance at all classes is expected. Students are responsible for lecture material, assignments, and announcements given during missed classes.

HOMEWORK AND QUIZZES Homework, as listed on the daily schedule, is assigned after the class period in which the material is covered and is due the following class period. Homework may or may not be collected each day. **You must copy the problem and show all work.** All homework must have the assignment written at the top of the paper. Quizzes may be given at any time. No make-up quizzes will be given for unexcused absences, but at least one quiz will be dropped when grades are computed. Homework and quizzes will be worth a total of 100 points.

EXAMS Three in-class exams, each worth 100 points, will be given as listed on the daily schedule.

FINAL EXAM: The final exam, worth 150 points, will be comprehensive. Students who have attended at least 80% of the classes may replace one regular exam score with their final exam percentage if the final exam percentage is higher. Only one of the three regular exam scores can be improved using a result from the final exam. *Note: If a student is caught cheating and awarded a zero for the exam, that exam score is not eligible to be replaced.

“EXCUSED” ABSENCES shall be defined by this instructor for this course as serious illness, death in the immediate family, and other situations which seem reasonable to the instructor.

MAKEUP WORK IN THE CASE OF AN “EXCUSED” ABSENCE In the case of a documented “excused” absence, makeup work will be handled as follows: Homework should be submitted within a week of the absence. For quizzes, the student should contact the instructor within a week of the absence and make an appointment to take the quiz as soon as possible. For exams, the student should contact the instructor immediately and a make-up exam will be given before the next class period.

LATE WORK Late homework assignments are subject to a 20% per day penalty except in the case of an “excused” absence.

Exceptions may be considered by the instructor in extenuating circumstances.

<u>COURSE GRADE</u>		<u>Grading Scale</u>
	Possible Points	A → 90 – 100% (495-550 points)
Homework and Quizzes	100 points	B → 80 – 89% (440-494 points)
Exams	300 points	C → 70 – 79% (385-439 points)
Final Exam	150 points	D → 60 – 69% (330-384 points)
Total Possible Points	550 points	E → 0 – 59% (0-329 points)

An “I” grade will be given only when a student is unable to complete the course for some reason that is satisfactory to the instructor. It shall be given only when there is a reasonable possibility that a passing grade will result from the completion of the work.

A “W” grade will be given to any student who officially withdraws from the course by 4 p.m. on Thursday, December 1, 2016.

COLLEGE POLICIES College contact information and policies pertaining to ethics/values, accommodations, email, withdrawal procedure, financial aid, weather or emergency closing and tutoring can be found using the [College Policies](#) link.

MAT 150 Homework Assignments

#1	1.1	p. 90	19, 27, 29,31, 33,36, 41, 44, 45, 51, 57,59, 71, 78,79, 80
#2	1.2	p. 101	11 – 19 odd, 25, 27,32, 33, 35, 43, 45, 51, 53, 61, 63,95, 96, 101
#3	1.4	p. 117	9 – 25 odd, 35, 37
	1.5	p. 127	13, 14, 25 – 28 all, 33 – 36 all, 61 – 75 odd
#4	1.6	p. 133	9 – 15 all, 21
#5	2.3	p. 178	17 – 23 odd, 47 – 61 odd, 65,67,71, 75 -83 odd,93,95,105,107
	2.4	p. 186	13 – 19 odd, 23 – 29 odd, 33
#6	3.1	p. 211	19 – 25 odd, 43, 45, 51 – 59 odd, 63, 67a-d, 79,81
#7	3.2	p. 218	11 – 23 odd,25
	3.3	p. 232	13 – 24 all, 25 – 33 odd
EXAM 1			
#8	3.4	p. 241	27, 29,33 – 39 odd
#9	3.5	p. 257	19 – 24 all, 28, 29, 31, 32, 39, 40, 43, 44, 45, 49, 50, 63abc, 64cdf
#10	4.3	p. 299	33, 35, 36, 37,38, 45, 55 – 61 odd, 85, 86
#11	5.1	p. 338	43-49 odd, 81, 84, 87,89,90,91,93
#12	R.6	p. 62	7 – 13 odd, 19 – 27 odd
	5.5	p. 387	33, 35, 37, 45, 46, 47, 49
#13	5.2	p. 351	15, 17, 18, 25, 27 45, 46, 47, 49
#14	5.3	p. 365	7, 8, 11, 12, 17, 19, 29, 33, 34, 35
EXAM 2			
#15	6.1	p. 408	13a,13b, 15a,15b, 23 – 33 odd(a and b only), 39,4,47,49
#16	6.2	p. 419	13 – 23 odd, 31 – 37 odd, 45, 49, 51, 52,53,54, 54,57
#17	6.3	p. 434	15, 17, 43, 44,49, 51, 55 – 58 all, 105, 106
#18	6.4	p. 448	9 – 25 odd, 27 – 37 odd, 39,40,51, 73,75,79, 83
#19	6.5	p. 459	13 -17 all,19,21,25, 26, 37, 45, 46, 47, 49, 51,55, 57, 58,68 69,71-74 all
#20	6.3	p. 436	63 – 69 odd
	6.6	p. 465	9, 11, 14, 16, 17, 21, 29, 31, 35, 36, 37
#21	6.7	p. 474	13,14, 22,35b,41,42
#22	6.8	p. 486	1, 2, 3, 4
EXAM 3			
#23	8.1	p. 555	19 – 33 odd, 34, 35
	8.6	p. 614	25, 26

Trimester 1 Tentative Calendar

<i>MONDAY</i>	<i>TUESDAY</i>	<i>WEDNESDAY</i>	<i>THURSDAY</i>	<i>FRIDAY</i>
		August 10 1.1 Solving Equations	11 1.2 Quadratic Equations	12 1.2 (continued)
15 1.4 Radical Equations	16 1.5 Inequalities	17 1.6 Absolute Value Eq.	18 Review and Quiz	19 2.3 Lines
22 2.4 Circles	23 2.4 Continued	24 Review and Quiz	25 3.1 Functions	26 3.1 Continued
29 3.2 & 3.3 Graphs and Properties of Functions,	30 3.2 & 3.3 Continued	31 Review and Quiz	September 1 Review	2 EXAM 1
5 <i>Labor Day</i>	6 3.4 Library of Functions	7 Piecewise Functions	8 Piecewise Functions	9 3.5 Transformations
12 4.3 Quadratic Functions	13 4.3 Continued	14 Review and Quiz	15 5.1 Polynomial Functions	16 R6 Synthetic Division
19 <i>No School</i>	20 5.5 Real Zeros	21 5.5 Continued	22 5.2 Properties of Rational Functions	23 5.2 Continued
26 5.3 Graphs of Rational Functions	27 5.3 Continued	28 Review and Quiz	29 Review	30 EXAM 2
October 3 <i>Fall Break</i>	4	5	6	7
10 6.1 Composite Functions	11 6.1 Continued	12 6.2 Inverse Functions	13 6.2 Continued	14 6.3 Exponential Functions
17 Review and Quiz	18 6.4 Logarithmic Functions	19 6.5 Properties of Logs	20 Review and Quiz	21 6.6 Log & Exponential Equations
24 6.7 Compound Interest	25 6.8 Growth & Decay	26 Review and Quiz	27 Review	28 EXAM 3
31 8.1 & 8.6 Systems of Equations	November 1 8.1 & 8.6 Continued	2 Review for Final	3 Review for Final	4 Final Exam