MAT 150 – 18DA (60956)
COLLEGE ALGEBRA
Fall 2015

Instructor:	Holly McCarty			
Telephone:	(502)839-5118 Ext. 2539			
Email Address:	HMCCARTY0020@kctcs.edu			
Office Hours:	12:44 – 1:54			
Course Homepage:	The Blackboard online system will serve as the class homepage: http://elearning.kctcs.edu			
Assistant Dean:	Jackie Wiseman	MB 118	(859) 246-6431	Email: Jackie.wiseman@kctcs.edu
Math Coordinator:	Until Oct 4: Vicki Partin	MB 121	(859) 246-6414	Email: vicki.partin@kctcs,edu
	After Oct 4: DeAnna Pelfrey	MB 125	(859) 246-6432	Email: Deanna.pelfrey@kctcs.edu
Office Manager:	Tonya Spivey		(859) 246-6410	
Division Suite:	Cooper Campus, MB 114			
Division Website:	http://www.bluegrass.kctcs.edu/Mathematics_and_Statistics.aspx			

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 *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, this class has a mandatory attendance policy. Attending class means being in class on time and

remaining until the class is dismissed. To be eligible to pass this class, a student must attend at least 80% of the classes.   Students are responsible for lecture material, assignments, and announcements given during missed classes.

HOMEWORK AND QUIZZES   Homework is due as listed on the daily schedule and may or may not be collected each day. **You must copy the problem and show all work**. Unannounced 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.

"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 with the excuse attached. 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 or during the last week of classes.

LATE WORK   Late homework and take-home 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.

COURSE GRADE		Grading Scale
	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 Friday, November 6, 2015.

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 – 10th edition

#1	1.1	p. 90	21, 29, 31, 35, 40, 43, 46, 47, 51, 55, 59, 71, 78, 80
#2	1.2	p. 101	11 – 21 odd, 27, 31, 35, 37, 38, 43, 47, 53, 55, 63, 95, 96, 101
#3	1.4	p. 117	11 – 25 odd, 37, 39
	1.5	p. 127	13, 16, 27 – 30 all, 35 – 38 all, 63 – 75 odd;
			Handout on Quadratic Inequalities
#4	1.6	p. 133	9, 11, 13, 21
#5	2.3	p. 178	17–31 odd, 49 – 61 odd, 65, 67, 71, 75, 77, 85, 87, 91 – 95 odd, 103 – 107 all
	2.4	p. 186	13 – 19 odd, 23 – 29 odd, 30, 45 – 48 all
#6	3.1	p. 210	19-29 odd, 44, 45, 51-57 odd, 58, 59, 60, 62, 67a-d, 71a-d, 75a-d, 79, 83, 84
#7	3.2	p. 218	11-15 odd, 16, 17, 21, 22, 23-27 odd, 28
	3.3	p. 232	13 – 22 all, 25, 29 – 35 odd
		EXAM 1	
#8	3.4	p. 244	33 – 39 odd; **Handout** on Library of Functions
#9	3.5	p. 256	19 – 24 all, 28, 29, 31, 32, 40, 41, 44, 45, 49, 50, 63abc, 64cdf
#10	4.3	p. 299	33, 35, 37, 38, 39, 43, 55-59 odd, 60, 61, 62, 85, 87
#11	5.1	p. 338	17-27 odd, 43, 44, 45-49 odd, 57, 59, 63, 81, 87, 89, 90, 91
#12	R.6	p. 61	7 – 13 odd, 17 – 25 odd
	5.5	p. 387	33, 35, 37, 45, 46, 47, 49
#13	5.2	p. 351	15, 17, 19, 20, 27, 28, 31, 45, 46, 49
#14	5.3	p. 365	7, 8, 11, 17, 33, 34, 35
		EXAM 2	
#15	6.1	p. 408	13, 16, 23-33 odd, 39, 41, 47-52 all
#16	6.2	p. 419	13-25 odd, 33-39 odd, 45, 47, 51, 53, 54, 55, 57
#17	6.3	p. 434	15-23 odd, 24, 43, 46, 55-58 all, 107, 111
#18	6.4	p. 448	11-25 odd, 27-33 all, 37-40 all, 43, 44, 61, 62, 64, 89-97 odd
#19	6.5	p. 459	13 – 22 all, 39, 45, 46, 47, 49, 51, 55, 57, 58, 68, 69, 71 – 74 all
#20	6.3	p. 436	63 – 69 odd, 73, 75, 79
	6.6	p. 465	9, 11, 14, 16, 17, 21, 29, 31, 43, 44, 45
#21	6.7	p. 474	7, 10, 13, 15, 19, 22, 35, 39
#22	6.8	p. 486	1, 3, 5, 7, 9
		EXAM 3	
#23	8.1	p. 555	19 – 35 odd, 36, 37
	8.6	p. 614	26, 27

Trimester 1 Tentative Calendar

MONDAY	*TUESDAY*	*WEDNESDAY*	*THURSDAY*	*FRIDAY*
		August 12	13 1.1 Solving Equations	14 *12th Grade Class Meetings* 1.2 Quadratic Equations
17 *Bus Evacuation Drills* 1.2 (continued)	18 1.4 Radical Equations	19 1.4 (continued)	20 1.5 Inequalities	21 *Tornado, Earthquake, and Fire Drills* 1.6 Absolute Value Eq.
24 2.3 Lines	25 2.3 (continued)	26 2.4 Circles	27 3.1 Functions	28 3.1 Continued
31 3.2 & 3.3 Graphs and Properties of Functions,	September 1 3.2 & 3.3 Continued	2 Review	3 Review	4 **EXAM 1**
7 *Labor Day*	8 3.4 Library of Functions	9 Piecewise Functions	10 Piecewise Functions	11 3.5 Transformations
14 3.5 Continued	15 4.3 Quadratic Functions	16 College Fair 4.3 Continued	17 ASVAB Class will not meet	18 5.1 Polynomial Functions
21 *No School*	22 R6 Synthetic Division	23 5.5 Real Zeros	24 5.5 Continued	25 5.2 Properties of Rational Functions
28 5.2 Continued	29 5.3 Graphs of Rational Functions	30 5.3 Continued	October 1 Review	2 **EXAM 2**
5 *Fall Break*	6	7	8	9
12 6.1 Composite Functions	13 6.1 Continued	14 6.2 Inverse Functions	15 6.2 Continued	16 6.3 Exponential Functions
19 6.4 Logarithmic Functions	20 6.4 Continued	21 6.5 Properties of Logs	22 6.5 Continued	23 6.6 Log & Exponential Equations
26 6.6 Continued	27 6.7 Compound Interest	28 6.8 Growth & Decay	29 Review	30 **EXAM 3**
November 2 8.1 & 8.6 Systems of Equations	*No School*	4 8.1 & 8.6 Continued	5 Review for Final	6 Review for Final
9 *Finals Week*	10			