MAT 150 – *18D1 (59668)*
COLLEGE ALGEBRA
Fall 2017

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	Bluegrass Community & Technical College Information			
College Website:	www.bluegrass.kctcs.edu Access Peoplesoft, Blackboard, Email, BCTC Info			
College Policies:	BCTC College Policies College Contact Info, email, withdrawal, accommodations, ethics/values, financial aid, emergency closing, tutoring info			
Blackboard:	KCTCS - Blackboard Course syllabus and other important course information			

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). **P rerequisites:** 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.

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, attendance at all classes is expected. 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. Ask me which assignment needs to be turned in. 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 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 Wednesday, November 1, 2017.

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, 108
#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 9 1.1 Solving Equations	10 1.2 Quadratic Equations	11 1.2 (continued)
14 *12th grade Class Meetings during 1st* 1.4 Radical Equations	15 1.5 Inequalities	16 1.6 Absolute Value Eq.	17 *Fire Drill 1st* Review and Quiz	18 2.3 Lines
21 2.4 Circles	22 2.4 Continued	23 Review and Quiz	24 3.1 Functions	25 3.1 Continued
28 3.2 & 3.3 Graphs and Properties of Functions,	29 3.2 & 3.3 Continued	30 Review and Quiz	31 Review	September 1 **EXAM 1**
4 *Labor Day*	5 3.4 Library of Functions	6 Piecewise Functions	7 Piecewise Functions	8 3.5 Transformations
11 4.3 Quadratic Functions	12 4.3 Continued	13 *Fire Drill 1st* Review and Quiz	14 5.1 Polynomial Functions	15 R6 Synthetic Division
18 5.5 Real Zeros	19 5.5 Continued	20 5.2 Properties of Rational Functions	21 5.2 Continued	22 No School
25 5.3 Graphs of Rational Functions	26 5.3 Continued	27 Review and Quiz	28 Review	29 **EXAM 2**
October 2 6.1 Composite Functions	3 6.1 Continued	4 6.2 Inverse Functions	5 6.2 Continued	6 6.3 Exponential Functions
October 9 *Fall Break*	10	11	12	13
16 Review and Quiz	17 6.4 Logarithmic Functions	18 6.5 Properties of Logs	19 Review and Quiz	20 6.6 Log & Exponential Equations
23 6.7 Compound Interest	24 6.8 Growth & Decay	25 Review and Quiz	26 Review	27 **EXAM 3**
30 8.1 & 8.6 Systems of Equations	31 8.1 & 8.6 Continued	November 1 Review for Final	2 Review for Final	3 Final Exam