

EASTERN KENTUCKY UNIVERSITY
DEPARTMENT OF MATHEMATICS AND STATISTICS
MAT 114 College Algebra Fall 2018

Course Purpose	This course is designed to assist students to become informed, critical, and creative thinkers who communicate effectively. Students who successfully complete MAT 114 will also meet general education goals and objectives as well as the course objectives.
Catalog Description	Formerly MAT 107. Prerequisite: MAT 098 or MAT 110 with a minimum grade of “C”, a minimum score of 22 on the mathematics portion of the ACT, a minimum score of 510 on the mathematics portion of the SAT, or a passing score on an algebra placement test. Real and complex numbers, integer and rational exponents, polynomial and rational equations and inequalities, graphs of functions and relations, exponential and logarithmic functions. Use of graphing calculators. Credit will not be awarded to students who have credit for MAT 107. 3 Lec /1 Lab. Gen. Ed. E-2 [QR].
Required Materials	<p>Textbook: Your instructor may require a code for MyMathLab, which includes access to an eBook, so be sure to confirm with the instructor before buying a standalone text.</p> <p><u>College Algebra: Concepts Through Functions</u>, by Sullivan and Sullivan, 3rd edition. ISBN 9780321925749 for stand-alone textbook. ISBN 9781256429692 for a MyMathLab code, which includes access to an eBook.</p> <p>Graphing Calculator: Every student must have a graphing calculator. A TI-84 is strongly recommended. A different graphing calculator may be used, but the instructor will use a TI-84 for demonstrations.</p>
General Education Goals	<p>This course contributes to the following EKU General Education goals.</p> <p>Students will be able to</p> <ul style="list-style-type: none"> • Use appropriate methods of critical thinking and quantitative reasoning to examine issues and to identify solutions. (Goal two) • Distinguish the methods that underlie the search for knowledge in the arts, humanities, natural sciences, history, and social and behavioral sciences. (Goal seven) • Integrate knowledge that will deepen their understanding of, and will inform their own choices about, issues of personal and public importance. (Goal eight) <p>In particular, the General Education Objectives for achieving Goal two include the following:</p> <ol style="list-style-type: none"> 1. Using mathematical methods to state and solve quantitative problems, including those stated in verbal form. 2. Using numerical and graphical data to make reasonable and valid conclusions. 3. Applying mathematical methods to real-life problems.

Student Learning Outcomes	<p>MAT 114 offers the student the opportunity to gain deeper understanding of algebraic relationships and processes as well as new and improved algebraic skills. Students who successfully complete MAT 114 should have the algebraic skills necessary for further study of mathematics (especially trigonometry and precalculus) or for applications of algebraic techniques in other fields. Upon successful completion of MAT 114, the student should be able to</p> <ul style="list-style-type: none"> • Simplify algebraic expressions. • Solve linear and quadratic equations. • Solve equations that are reducible to quadratic equations. • Solve equations and inequalities involving absolute value. • Solve systems of linear equations. • Solve exponential and logarithmic equations. • Find the roots of polynomial functions and solve polynomial equations. • Graph linear, quadratic, exponential, logarithmic and polynomial functions. • Perform complex number arithmetic. • Use the graphing calculator to solve and graph various types of equations and inequalities. 												
Homework and Course Expectations	<p>Homework should be completed before the next class meeting unless otherwise specified by the instructor. Students should expect to spend a minimum of two hours outside of class studying for each hour in class.</p>												
Evaluation	<p>Each test is worth 100 possible points and the final exam is worth 200 points. Your instructor may give homework and/or quizzes that may count up to a total of 100 possible points. The course grade will be computed by dividing the total points earned by the total points possible. No test scores will be dropped or curved. The grading scale for the course is:</p> <table border="1" data-bbox="394 1129 1541 1251"> <tr> <td>Percentage:</td> <td>90 - 100</td> <td>80 - 89</td> <td>70 - 79</td> <td>60 - 69</td> <td>< 60</td> </tr> <tr> <td>Letter Grade:</td> <td>A</td> <td>B</td> <td>C</td> <td>D</td> <td>F or FN</td> </tr> </table> <p>In accordance with departmental policy, grades will not be posted or given over the telephone.</p>	Percentage:	90 - 100	80 - 89	70 - 79	60 - 69	< 60	Letter Grade:	A	B	C	D	F or FN
Percentage:	90 - 100	80 - 89	70 - 79	60 - 69	< 60								
Letter Grade:	A	B	C	D	F or FN								
Student Progress	<p>Your midterm grade is the average of the grades on tests taken prior to midterm. Mid-term grades will be viewable online (EKUDirect/Student Services/Midterm Grades) by October 9, 2018.</p>												
Attendance Policy	<p>Students should make every effort to attend every class meeting. In the case of an excused absence with proper documentation, extended deadlines or alternate activities will be provided for any graded activities, including exams. However, these accommodations do not always provide equivalent learning opportunities. An acceptable excuse is a doctor's excuse, a university excuse, or a catastrophic emergency resulting in unavoidable absence. Arrangements to complete alternate activities, such as another version of an exam, must be made within one week of returning to class; otherwise, a zero will be recorded.</p>												

Make-up Exam Policy	Students who miss a test will be allowed to take a general makeup test covering the entire semester if the absence is excused. This makeup is scheduled during the last week of classes. To qualify for the makeup test, a written excuse with verification from an official such as a doctor must be presented to the course instructor within one week of the absence; otherwise, a zero will be recorded.
Withdrawal	<ul style="list-style-type: none"> • The last day to drop this class with no tuition charge and no record of the course on the transcript is August 26, 2018. • The last day to withdraw from this course with no withdrawal fee is September 16, 2018. After that, students withdrawing from the class may incur a \$150 fee. • The last day to withdraw from this class is November 11, 2018. • For additional information about dates for partial refunds, consult the Colonel's Compass, http://colonelscompass.eku.edu/.
Accessibility	The University strives to make all learning experiences as accessible as possible. Student accommodations are handled by the Center for Student Accessibility (CSA). Contact CSA by going to their office, 361 Whitlock Building, by email at accessibility@eku.edu or by telephone at (859) 622-2933. The full accessibility statement is at http://accessibility.eku.edu/forms-policies-and-regulations
Academic Honesty and Integrity	<ol style="list-style-type: none"> 1. Anyone violating the usual standards for academic honesty, for example, anyone attempting to obtain or exchange information regarding any quiz or test, or anyone using a fraudulent excuse to qualify for a make-up, may receive a course grade of 'F'. Cheating includes buying, selling, or otherwise fraudulently obtaining copies of examinations or assignments for the purpose of improving one's academic standing. During examinations it includes receiving information from other students or other students' exams and referring to unauthorized notes or other written information in any form including electronic (e.g., information stored in graphing calculators). 2. Anyone behaving in a disruptive manner or refusing to follow the usual standards for academic behavior may be barred from attending class and may receive a course grade of 'F'. 3. Students are advised that EKU's Academic Integrity policy will be strictly enforced in this course. The Academic Integrity policy is available at http://studentrights.eku.edu/academic-integrity-policy. Questions regarding the policy may be directed to the Office of Academic Integrity.
Official E-mail Address	An official EKU e-mail is established for each registered student, each faculty member, and each staff member. All university communications sent via e-mail will be sent to this EKU e-mail address.
Student Support	The Mathematics and Statistics Tutoring Center is located in Wallace 342, (859) 622-6508 V/TTY, http://www.mathtutor.eku.edu . This service is provided free of charge by the Department of Mathematics and Statistics. The staff will help students to complete homework, improve study skills, decrease mathematics anxiety, and prepare for exams. Students are encouraged to take advantage of this facility. Hours, locations, and phone numbers for additional tutoring facilities on campus are found at http://tutoring.eku.edu/ .

<p>Alert!</p>	<p>EKU is committed to a respectful and inclusive environment and thus prohibits discrimination, harassment, or violence of any kind. The university supports and promotes a safe, violence-free campus through Green Dot Prevention and Education programming. To learn more about Green Dot, request a presentation, or get involved, go to http://greendot.eku.edu/.</p> <p>EKU's commitment also requires faculty members to report any information that may indicate that discrimination, harassment, or violence has affected any member of the University community. If you would like to obtain confidential help from someone who does not have to report the information, please go to http://titleix.eku.edu/resources for resources. The Non-Discrimination and Harassment policy is available here (https://policies.eku.edu/sites/policies.eku.edu/files/policies/1.4.1pnondiscriminationharassment.pdf) and questions regarding the policy may be directed to the Director of the Office of Equity and Inclusion & Title IX Coordinator.</p>
<p>Assistance for Students</p>	<p>Some of the following services are available 24/7.</p> <p>EKU Student Health Center: (859) 622-1761 or www.healthservices.eku.edu</p> <p>EKU Counseling Center: (859) 622-1303 or www.counselingcenter.eku.edu</p> <p>Madison County Health Department: (859) 623-7312</p> <p>Bluegrass Rape Crisis Center: 1-800-656-4673</p> <p>EKU Police: (859) 622-1111 Richmond City Police: (859) 623-1162</p> <p>National Suicide Prevention Lifeline: 1-800-784-2433 (for you or someone you know)</p> <p>Crisis Hotline: 1-800-273-8255 Local Crisis Hotline: 1-800-928-8000</p> <p>Colonel's Cupboard (Emergency Food): www.communityservice.eku.edu/Cupboard</p>
<p>Department Policies</p>	<ul style="list-style-type: none"> • During class, cell phones and pagers must be turned off or set to a silent mode. • During resource-limited activities, such as in-class exams, students may not use the calculator function of a wireless communication device such as a cell phone or PDA. • Any student enrolling in a multiple section course for which s/he has already received a grade of "D", "F", or "W" from the instructor who is teaching the section may change to a section taught by a different instructor by seeing the Chair of the Department of Mathematics and Statistics. This change must be completed by the end of the drop/add period.
<p>If you need further information concerning this course, please contact your instructor or the MAT 114 Coordinator, Dr. Margaret Yoder (Wallace 306 or margaret.yoder@eku.edu).</p>	

MAT 114 College Algebra
Syllabus Addendum Fall 2018 (CRN 14287)

Days and Time: MTWRF 1:22-2:12 PM

Location: MCHS Room 729

Instructor: Bryson Loudermilk

Office: MCHS Room 729

Phone: (606)376-5051

Email: Bryson.loudermilk@mccreary.kyschools.us

Office Hours: MTWRF: 8:00 – 8:15 AM & 3:12 – 3:50 PM

GRADING The grades for this class will come from MyMathLab homework, quizzes, and exams.

Your grade will be determined as follows:

500 pts	Exams (5 exams @ 100 pts each)
<u>200 pts</u>	Comprehensive Final Exam
Total: 700 pts	

PARTICIPATION Learning mathematics is a process which requires the active participation of the student. Therefore, regular attendance and participation is expected and will be recorded. Students are responsible for preparing for class, which includes printing out any lecture notes, reading the material to be covered before it is discussed in class, and completing any assigned problems.

****TEXTBOOK** *College Algebra: Concepts Through Functions, by Sullivan and Sullivan, 3rd edition*
An online copy of this textbook will be included in MyMathLab, so you DO NOT need to buy a textbook for this class.

HOMEWORK All homework assignments will be assigned daily. It is the student's responsibility to complete all assignments. Failure to complete assignments will ultimately negatively impact both the student's grade and performance.

EXAMS There will be four exams given throughout the semester. The exams will consist of both open-ended and multiple choice questions. Each test will be worth 100 points and will be paper and pencil based. It is very important that you take each exam on schedule. You will be eligible for a make-up only if you present a valid excuse (e.g. a doctor's excuse or a university excuse).

FINAL EXAM There will be a comprehensive final exam consisting of approximately 6 open-ended questions and 28 multiple choice questions. The final will be worth 200 points.

WEATHER If there is no school in McCreary County due to inclement weather, we may or may not have class in person. If the roads are severe, we will not have class and there will be an online assignment for that day. If the roads

clear out later in the afternoon, we will have class at 12:00 PM on such days. Please frequently check your email on snow days for updates. On NTI days, we will always have class at 12:00 PM.

MAT 114 TENTATIVE SCHEDULE

Fall 2018 – MTWRF

Monday		Tuesday		Wednesday		Thursday		Friday	
8/20	No Class	8/21	Syllabus, F.1	8/22	F.2	8/23	F.3	8/24	Quiz 1
<i>The last day to drop this course with no effect on the transcript and no tuition is 8/26.</i>									
8/27	1.1	8/28	Recitation	8/29	1.2	8/30	Quiz 2	8/31	No Class
9/3	Labor Day	9/4	1.3	9/5	1.4	9/6	Quiz 3	9/7	1.5
9/10	1.6	9/11	Review	9/12	Review	9/13	Test 1	9/14	2.1
<i>The last day to withdraw from this course with a "W" and without a fee is 9/16.</i>									
9/17	2.3	9/18	Recitation	9/19	2.3	9/20	Quiz 4	9/21	2.4
9/24	2.5	9/25	Recitation	9/26	2.7	9/27	Quiz 5	9/28	2.8
10/1	Review	10/2	Review	10/3	Test 2	10/4	FALL BREAK	10/5	FALL BREAK
10/8	No class	10/9	3.1	10/10	3.1, 3.2	10/11	Quiz 6	10/12	3.2
<i>Midterm grades will be available in EKUDirect on 10/9.</i>									
10/15	3.3	10/16	Recitation	10/17	3.4	10/18	Quiz 7	10/19	3.4, 3.5
10/22	3.5	10/23	Recitation	10/24	3.6	10/25	Quiz 8	10/26	3.6
10/29	Review	10/30	Recitation	10/31	Review	11/1	Test 3	11/2	4.1
11/5	No Class	11/6	Election Day	11/7	4.1, 4.2	11/8	Quiz 9	11/9	4.2
<i>The last day to withdraw from this course with a "W" is 11/11. Requires payment of \$150 fee.</i>									
11/12	4.3	11/13	Recitation	11/14	4.4	11/15	Quiz 10	11/16	4.4
11/19	4.5	11/20	4.5	11/21	THANKS-GIVING BREAK	11/22	THANKS-GIVING BREAK	11/23	THANKS-GIVING BREAK
11/26	4.6	11/27	Recitation	11/28	Review	11/29	Review	11/30	Test 4
12/3	Final Review / Snow Makeup	12/4	Recitation	12/5	Final Review/ Snow Makeup	12/6	General Makeup	12/7	Final Review/ Snow Makeup
<p>The comprehensive, departmental final exam is on Tuesday, December 11th from 8:00 -10:00 AM. The final will consist of two parts:</p> <ol style="list-style-type: none"> 1. Several questions that are not multiple-choice. You will not be allowed to use a calculator on this portion and you must show your work. This portion is 30% of the final. 2. 28 five-point multiple-choice questions. You will be allowed to use a calculator on this portion. <p>NOTE: You will only be allowed to bring writing utensils and a calculator to the exam. No other resources are permitted.</p>									

