MAT 137 Course Syllabus
Summer 2016 Online w/Campus Requirement
May 23-Aug 2

**** Please read the following carefully, as you are responsible for its content!***

***Instructor*:** Sarah Leone

Email: Email me through Blackboard Messages. If BB is down, then you can email me at sleone@mxcc.edu.

***Course Title*:** Intermediate Algebra, CRN 2040

***Pre-requisites*:** *Eligible for ENG*101 and MAT *095or MAT* 085 with a grade of "C" or better OR eligible for ENG*101 and math placement.*

***Course Description*:** This course is a further study of algebra and mathematical modeling of functions and relations represented by tables, graphs, words, and symbols. Polynomial functions and expressions with special attention to linear, quadratic, exponential, rational, and radical functions are studied. There is an emphasis on modeling and applications for all topics. A graphing calculator is required for this course. Note: Course cannot be used to satisfy the Quantitative Reasoning competency for transfer programs or pathways.

***Required Materials*:**

- *Mathematics in Action: Algebraic, Graphical and Trigonometric Problem Solving* 5th Edition, The Consortium for Foundations of Mathematics w/ MyMathLab Access Kit

  OR

  MyMathLab access purchased directly from www.mymathlab.com , which comes with e-book. ****Please note, it you choose to use the e-book you will HAVE to print out each required activity to complete each week.**

- TI 83 or 84 Graphing Calculator

General Expectations: Summer courses are extremely compressed, with an enormous amount of material covered in a short period of time. Taking the course online can make it that much more difficult to stay on top of the material. It is crucial that you are doing work EVERYDAY during this summer session to be successful. If we were to meet in a classroom, you would be spending about 6 hours in class per week, and a minimum of another 5-7 hours outside of class doing work. Please keep that in mind to give yourself a guideline as to how many hours you will need to dedicate to this course.

Blackboard Learn: The entire course is set up using Blackboard Learn. I am often going to abbreviate this to BB. In BB you will find links to complete your homework and assessments, read brief summaries on your weekly topics, follow the calendar, contact me and post discussions. There are also links for help on BB. It is your responsibility to be logging on to BB and checking for announcements and following along with the course calendar. There is a hotline available for BB help 24/7. The number for this is 866 940 1928.

***Communication with me*:** Please email me through Blackboard Messages only. The only time you should need to use my email is if Blackboard is down. To contact me through Blackboard, go to Messages on the navigation bar on the left and you will be able to find my name to send me a message. Please allow 24 hours for me to get back to you once you have emailed me.

Calendar: You will find a one-page calendar with the topics, required activities and due dates for each week of the semester under *Calendar of Due Dates on* the left task bar in BB. I strongly encourage you to print this out during the 1st week of classes and use it as a reference each week so you don't miss any due dates.

Weekly Notes: At the beginning of each week a summary of the week's topics and assignments, along with videos of the activities from the book will be posted for you to read. These weekly postings will be under Weekly Notes and Materials on the task bar in Blackboard. Please be sure to start your week off by reading these weekly postings. I will be reminding you of upcoming due dates in these postings so it is a great way to keep track of what's due in each upcoming week.

Activities from the Textbook: MxCC has a new approach to our intermediate algebra courses, which is more activity and application based rather than strictly skill based. This is why it is SO important that you complete the activities from the book each week before you start the HW. These activities are more like labs that you would be completing in groups if you took this class on-ground. Each week in the weekly notes, I will post a video of the assigned required activities for the week. Your job is to print the activity from the e-book and complete the activity along with me on the video. You will be required to bring all these completed activities with you to the final exam so I can check that they are completed. This will be part of your grade for the semester. After the week is over, the video will not be available because I want everyone to complete them in the assigned week.

If you bought the textbook, I would suggest you use it like a workbook and complete the activities right in the book. There are always graphs provided for you and it makes it much easier to follow along with my videos. Please do not try to write out all the questions and answers on separate paper. I would like you to either print the activities, or use the book as a workbook.

Homework: Each week you will be assigned a homework assignment that you are to complete using My Lab Mastering/MyMathLab, abbreviated MML. You get to MML by using the link on Blackboard. **With your textbook, you should have purchased a MyMathLab Access Kit. In that kit is an access code that you will need in order to register with My Lab/Mastering.** You can also purchase an access code directly from the website with a credit card. You will have to register using your access code, along with the course ID, to start completing your assignments. **Please see the announcement in BB about registering with MML.**

Once you have registered for the first time in MML, you can either access the course through BB, or log in directly to MML by going to www.pearsonmylab.com . Both links will take you to the same login page.

You can work on the homework as many times as you like before the due date. **You will get three attempts at each question before MML marks that question incorrect. When that happens, you may choose "Similar Problem" and you will be given a new problem to try.** All homework assignments are due at the end of the week the topic is covered. For example, MML HW #1 is due **Sunday May 29**. This assignment is on the topics covered the week of May

23. It is the expectation that you work on the material during the week/weekend, complete the homework by the end of the week and then move on to the next week's material. **All HW assignments for the summer session will be available on the 1st day of class in case you would like to work ahead on HW.** Before attempting MML homework, you will want to read the weekly notes and follow along with the videos, complete the required activities (and go through even the ones that aren't required). Doing these things before attempting HW will make the time it takes to complete the HW each week much shorter. Because this class is online and you are doing the work independently, it is critical that you stay on top of the material. Please make sure you are submitting on time! NO LATE HOMEWORK WILL BE ACCEPTED!

***MyLab Mastering has many great features to help with the material. Once you are registered and logged onto MSL, be sure to look at the task bar on the left to see what else it has to offer. There are chapter notes, additional exercises, power point slides,vidoes with an instructor working through problems, and sample tests/quizzes. Also, My Lab/Mastering offers a Study Plan to show you the areas you need to work on. Every time you complete an assignment, the study plan is updated and you can go in and try more examples from that material. Please check this stuff out so you know where to go if you start having difficulty with the material.

***Quizzes/Tests*:** Your quizzes and tests are also taken in MyMathLab. Exams are timed, so you will have to complete them in one sitting. Once you open the quiz/exam, the timer will start. The reason tests are timed is to make sure that everyone has been fully prepared and mastered the material BEFORE taking the test. If you find that you are running out of time on these assessments, it is most likely because you have not practiced enough. If you are spending a good deal of time looking through your book/notes while you are taking a test, you will almost definitely run out of time. A short description of each exam, including amount of time you have to complete will be in your weekly notes. All quizzes and tests will open at 8:00 on the Monday before they are due. All tests/quizzes must be completed by midnight on the due date. See the calendar in BB for specific dates. Each week you will have at least a quiz or test due, as well as your discussion and weekly homework in MML. The expectation is that you are working on the homework all week and you take the test once you have completed that and feel comfortable with the material. You will able to view your test grades as soon as you have submitted your answers, but you can only review your answers once the due date has passed. Please follow the calendar so you do not miss a due date. **NO LATE TESTS/QUIZZES WILL BE ACCEPTED UNLESS YOU HAVE A PHYSICIAN'S NOTE OR SOME DOCUMENTATION STATING YOU WERE UNABLE TO TAKE THE EXAM ON TIME**.

****Note about partial credit—My Lab/Mastering will give partial credit if you get one part of a question correct but not another part. However, since it is a computer grading these tests/quizzes, it will not award you partial credit if you have an answer wrong due to rounding, or some other very minor error. Once each due date passes, please review your test/quiz in MML. You can email me if you that feel there are some questions that you deserve partial credit on, along with your work. I can adjust the grade manually if I find you deserve more credit than you were given.

Project: You will have 1 project to complete this summer session, due at the end of the last week before exams. The description and guidelines for this project will be posted approximately 2-2.5 weeks prior to the due date. The due date can be found on the Calendar of Topics and Due Dates in BB.

Final Exam: You will be required take your final exam on campus during one of the two provided times. The format of the exam will be exactly the same as every other exam, and taken on MML. You will be allowed to use your notes/textbook on the exam. The purpose of taking the exam on campus is for the instructor to be able to check student IDs and to make sure the exam is taken without the help of anyone else. The two options for times are below.

YOU MUST EARN AT LEAST A 60% ON THE FINAL EXAM IN ORDER TO PASS THE COURSE. Failure to earn a 60% will result in an F for the course, regardless of your calculated average.

Your exam for Summer 2016 will be given on August 1, 2016, from 12:30-3:00 OR 4:00-6:30. You will be required to attend one of these sessions to complete your exam.

Discussions: You will have weekly discussions throughout semester, the first one being due on **Sunday May 29.** The due dates are on your calendar. Not all of the discussions will be mandatory. You will see if the discussion is OPTIONAL or MANDATORY when you read the description. Go to DISCUSSIONS on the navigation bar in BB to get full description and to post your response to the discussion. Some of these discussions will be open ended questions like "Tell the class one thing that you are having difficulty with this week", and some will be problems that relate to the material we are covering. For some discussions you will be able to read other responses' and some you will be replying directly to me.

Use of the Calculator: We will use the graphing calculator for almost every topic we cover. It is extremely important that you get comfortable using the calculator from the very beginning of class. The best calculator for you to have is the TI-83 or 84. I will put step-by-step instructions in the weekly notes each week for using the calculator. I will also provide some videos to help you get comfortable with graphing on the calculator. Your textbook also provides the steps for using the TI graphing calculators.

**There is a great Calculator Guide in MML, under Tools for Success. Check it out once you get registered with MyMathLab.

***Grading*:** Your final grade will be comprised of the following:

Tests/Final Exam	50%
Homework	20%
Quizzes	10%
Project	10%
Discussions/Activities from Book	10%

****Your discussion grades can be found under MY GRADES in Blackboard. The rest of your grades will be in MyMathLab****

Grading Scale: The following is the grading scale for MxCC College:

A	A-	B+	B	B-	C+	C	C-	D+	D	D-	F
93 – 100	90 – 92	87 – 89	83 – 86	80 – 82	77 – 79	73 – 76	70 – 72	67 – 69	63 – 66	60 – 62	< 60

Tutoring: MxCC offers **FREE TUTORING** on campus (Chapman Hall 711), at the Meriden Center, and online (etutoring.org). For more information, visit the College Learning Center Website (click "College Learning Center" on the www.mxcc.commnet.edu homepage) or call (860) 343-5770. Take advantage of these services and start to excel in your classes!

***Withdrawal*:** You may withdraw from this class any time before the end of the 11th week of the semester. A completed and signed withdrawal form must be on file in the Records Office by the deadline in order to receive a "W" on your transcript. If you fail to complete this process on time, you will receive a letter grade at the end of the semester, which will include zeroes for any work not submitted. Course withdrawals may affect financial aid and veteran's benefits, so please make this decision carefully, and with the help of your advisor. Please see the Academic Calendar and the College Catalog for specific dates and procedures regarding the withdrawal process. **The deadline to withdraw from this summer session is July 15th.**

Math Placement Tests: The purpose of the Math Placement Exam is to assess a student's background and place him/her in an appropriate level of mathematics so as to increase the likelihood of a student's success. If a student believes that he/she has been misplaced in a math class, the student is responsible for speaking with his/her math teacher during the first week of class. If, after reassessing the placement, the math teacher believes that the student should be reassigned to another math class, the student must complete the course change process before the second week of class.

IMPORTANT COLLEGE POLICIES!! PLEASE READ CAREFULLY!

For information about the college's policies and procedures regarding academic honesty, accessibility/disability services, attendance, audio-recording in the classroom, grade appeals, plagiarism, religious accommodations, weather and emergency closings, and more, please go to the following website: www.mxcc.edu/catalog/syllabus-policies/ or scan the QR code with your smart phone. Also, please become familiar with the policies regarding nondiscrimination, sexual misconduct, and general student conduct at the following website: www.mxcc.edu/nondiscrimination/.

NON-DISCRIMINATION STATEMENT

Middlesex Community College does not discriminate on the basis of race, color, religious creed, age, sex, national origin, marital status, ancestry, present or past history of mental disorder, learning disability or physical disability, sexual orientation, gender identity and expression or genetic information in its programs and activities. In addition, the College does not discriminate in employment on the additional basis of veteran status or criminal record.

The following people have been designated to handle inquiries or complaints regarding non-discrimination policies and practices:

- *Primary Title IX Coordinator*
  Dr. Adrienne Maslin
  Dean of Students/Title IX and Section 504/ADA Coordinator
  amaslin@mxcc.edu; 860-343-5759; Founders Hall Room 123|

- *Secondary Title IX Coordinator*
  Ms. Mary Lou Phillips
  Director of Human Resources, Middlesex Community College
  mphillips@mxcc.edu; 860-343-5751; Founders Hall Room 115

- *Secondary Title IX Coordinator*
  Ms. Queen Fordham
  Coordinator of the Meriden Center Welcome Desk
  qfordham@mxcc.edu; 203-608-3011

Course Description

This course is a further study of algebra and mathematical modeling of functions and relations represented by tables, graphs, words, and symbols. Polynomial functions and expressions with special attention to linear, quadratic, exponential, rational, and radical functions are studied. There is an emphasis on modeling and applications for all topics. A graphing calculator is required for this course. Note: Course cannot be used to satisfy the Quantitative Reasoning competency for transfer programs or pathways.

Prerequisite: Eligible for ENG*101 (including ENG*101E) and MAT*085 or 095 with a grade of "C" or better OR eligible for ENG*101 (including ENG*101E) and math placement

General Objectives of the Course

This course introduces the student to basic non-linear mathematical relationships and prepares them for further study in mathematics. It also includes the following Combined Mathematics Standards/Quantitative Literacy Outcomes:

1) Exhibit perseverance, ability, and confidence to use mathematics to make sense of and solve problems
2) Perform mental arithmetic and use proportional reasoning
3) Analyze problem situations through numerical, graphical, symbolic and/or verbal approaches and modeling
4) Use appropriate tools strategically in solving problems
5) Recognize patterns, draw inferences
6) Communicate and interpret results
7) Demonstrate an understanding and appreciation of the usefulness of mathematics in everyday life

Unit #	**Instructional Unit**	**Specific Objectives of Unit**
1	Linear Functions	1. Provide multiple representations (e.g., words, symbols, graphs, tables) of linear functions by hand and/or using

		technology 2. Determine identifying characteristics of linear functions 3. Model and solve real world applications with linear functions (e.g., car depreciation) and systems of linear equations
2	Exponential Functions and/or Expressions	1. Provide multiple representations (e.g., words, symbols, graphs, tables) of exponential functions or expressions by hand and/or using technology 2. Determine identifying characteristics of exponential functions or expressions 3. Evaluate, simplify, and perform operations on exponential functions or expressions 4. Identify exponential functions within real world applications and recognize the appropriate domain of each application
3	Quadratic Functions and/or Expressions	1. Provide multiple representations (e.g., words, symbols, graphs, tables) of quadratic functions or expressions by hand and/or using technology 2. Determine identifying characteristics of quadratic functions or expressions (e.g., factors) 3. Evaluate, simplify, and perform operations on quadratic functions or expressions 4. Solve quadratic equations algebraically (e.g., factoring, square root method, and quadratic formula with rational solutions) and/or graphically 5. Solve real world applications involving quadratic equations and functions and recognize the appropriate domain of each application
4	Rational Functions and/or Expressions	1. Provide multiple representations (e.g., words, symbols, graphs, tables) of simple rational functions or expressions by hand and/or using technology 2. Determine identifying characteristics of rational functions or expressions 3. Evaluate, simplify, and perform operations on simple rational functions or expressions 4. Solve simple rational equations algebraically and/or graphically 5. Solve real world applications involving rational functions and identify the appropriate domain of each application
	Radical Functions and/or Expressions	1. Provide multiple representations (e.g., words, symbols, graphs, tables) of simple radical functions or expressions by hand and/or using technology, with primary emphasis on square root 2. Determine identifying characteristics of radical functions or expressions 3. Evaluate, simplify, and perform operations on simple radical functions or expressions 4. Solve simple radical equations algebraically and/or

		graphically 5. Solve real world applications involving radical functions and identify the appropriate domain of each application 6. Identify imaginary numbers