COURSE SYLLABUS-Fall 2018

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

MAT*	**137**	**Intermediate Algebra Online with Campus Requirement**
		(CRN # 3414)
_____	_____	_____
Department	Course No.	Course Title
3	**3**	
_____	_____	
Credit Hrs.	# lecture hrs./week	

Prepared by	**Dr. Joseph Murfin**	**August 2018**
	_____	_____
	Faculty Member	Date

Course prerequisites:
• **Eligible for either ENG*101E or ENG*101**, together with Math placement into MAT*137
• OR **Eligible for either ENG*101E or ENG*101**, and **either MAT*085 or MAT*095 with a grade of "C+" or better**

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Course Location (building/room number): **Online**

Meeting time (days/hours): **Online with On-Campus Requirement**

Scope of course:

> **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.**

Textbooks and other required readings/computer software/materials/library reserve room:

- **Textbook:** *Connecticut Intermediate Algebra Student Workbook, Version 1.3* **(2017)**

- **MyOpenMath.com Account (Free)**
  Course ID: 38746

- **Graphing Calculator (TI-83 or TI-84)**
  -Available for free check out from the library or for rent from the bookstore

Office Location	**Wheaton Hall, Room 310**	Office Hours/	**TR 11:00AM-12:00PM** **MW 11:00AM-11:30AM** **Or by Appointment**
Office Telephone:	**860-343-5744**	Office e-mail:	**jmurfin@mxcc.commnet.edu**

IMPORTANT INFORMATION-CAREFULLY READ EVERYTHING IN THIS SECTION!

Blackboard Learn: The 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

MyOpenMath: MyOpenMath is a free online math learning environment. This is where you will find video lessons and other helpful material for the course. This is also where you will complete homework, quizzes, and online exams. You will need to register for the website at http://myopenmath.com and use the course ID **38746** to enter my course. There is no enrollment key, so leave this blank.

General Expectations: Intermediate Algebra can be a very challenging course when taken in a traditional classroom. 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 several times each week during this semester to be successful. Please do not wait until the weekend the assignments are due to complete them. If we were to meet in a classroom, you would be spending about 3 hours in class, and a minimum of another 4-5 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.

Homework: Each week you will be assigned homework assignment(s) that you are to complete using MyOpenMath (MOM). These are designed to be worked on over the course of several days. Do not try to complete them each in one day, as they may take several hours. You can attempt the homework problems as many times as you like before the due date. **You will get three attempts at each question before MyOpenMath marks that question incorrect. When that happens, you may choose a "Similar Problem" and you will be given a new problem to try**. It is the expectation that you work on the material during the week/weekend, complete the homework by the due date and then move on to the proceeding material. **In general, homework assignments will be opened on Monday mornings at 8:00am** and will be open for approximately 2 weeks before the due date (maybe longer). Before attempting MOM homework, you will want to read the weekly notes and follow along with the media examples (Mini-Lesson), and complete the You Try problems. It will also be useful to complete some of the practice problems for each lesson. Answer keys for these are available on MOM. 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!**

Online Quizzes/Exams: Your quizzes and exams are also taken in MyOpenMath. Exams/Quizzes are timed, so you will have to complete them in one sitting. Once you open the assessment, the timer will start. The reason these 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 an exam or quiz, you will almost definitely run out of time. A short description of each assessment, including the amount of time you have to complete, will be in your weekly notes and will be listed on MyOpenMath. See the calendar in Bb for specific dates. The expectation is that you are working on the homework for several days and you take the quiz/test once you have completed that and feel comfortable with the material. Exams/Quizzes will be available approximately one week before the due date. 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. I will double-check exams and quizzes for typos (for example, typing a "." instead of a ",") after everyone has completed the assignment, so no need to email me about such issues unless you noticed that I overlooked an obvious typo. Typing in the wrong number is NOT a typo. **IMPORTANT! NO LATE EXAMS /QUIZZES WILL BE ACCEPTED EXCEPT IN THE MOST EXTREME CIRCUMSTANCES!**

Labs: You will have 2 mini-labs to complete throughout the semester. The description and guidelines for these projects will be posted approximately 1 ½ to 2 weeks before they are due. The due dates can be found on the Calendar of Topics and Due Dates in BB.

Discussions: You will have weekly discussions throughout semester. 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.

Final Exam: You will be required take your final exam on campus during one of the two provided times. The two options for times will be provided to you during the first month of class so that you can plan ahead. The format of the exam will be exactly the same as every other exam, and taken on MyOpenMath. The exam will be cumulative, and a set of review questions will be provided in MOM.

IMPORTANT! 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.

Evaluation:

30%	Homework Average:	20%
	Quiz Average	15%
	Unit Exams Average (3 exams):	
25%	Discussions	10%
	Final Exam (Cumulative):	

Grading:

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

MORE INFORMATION

Getting Help: The College offers free tutoring in the Academic Success Center. Please try to take advantage of this if you are having any difficulty with the material. I will also be available to meet with you by appointment. You may always email me with questions as well. It is critical that you address problems immediately with a math course, especially an accelerated course. You may also come see me during office hours (above) or contact me to set up a specific time to meet.

Communication with me: Please contact me through Blackboard Messages or email. To contact me through Blackboard, go to BB 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 if it is during the week. I may periodically check email over the weekend, but please do not expect a response until the following Monday.

 If you have a specific question on a homework problem, you can click "message my instructor" in MyOpenMath. This will send me a link to the problem and is preferably to emailing about a specific problem.

Course Schedule: A tentative (subject to change) course schedule for the class will be given out at the beginning of the course. I will also use the MyOpenMath course calendar to show due dates for homework, quizzes, and exams. Ultimately, the dates on the MyOpenMath calendar will reflect the most up-to-date due dates for the course, so make sure to check it regularly.

NOTE: The instructor reserves the right to make changes to the above syllabus as necessary.

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:
http://mxcc.edu/catalog/academic-policies.

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

- *Anastasia Pych*
  Director of Human Resources and Labor Relations, Middlesex Community College
  apych@mxcc.edu; 860-343-5751; Founders Hall Room 115

<u>MAT 137 Online-Fall 2018 Due Dates</u>
COURSE OUTLINE

MAT*	137	Intermediate Algebra	3
Dept. Abbr.	**Course No.**	**Course Title**	**Credits**

Prepared by	Math	Pam Frost		Mary Rayappan	November 2013
	Department	**Faculty**	**Program Coordinator**	**Division Chairperson**	**Date**

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
5	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

Blackboard Learn

Blackboard Learn (BB) will be used in this class. If you have not used this before you can follow the directions below on how to access this resource:

Access Blackboard Learn

1. Open a web browser.
2. Go to **my.commnet.edu**.
3. Enter your **NetID** and **password**, click Login.
NetID: BannerID@student.commnet.edu,
     Do not know your NetID? Visit this site to find out:
     https://www.commnet.edu/netid/lookupnetid.asp

Password: The same password to log on to a campus computer at any of 12 Connecticut community colleges.

     If you have never logged on to a campus computer, the initial password is a combination of your first 3 letters of birth month (capitalize the first letter), & (shift+7), and last four digit of your social security number.

     For example, if you are born in April and the last four digits of your social security number are 4575, then your initial password is Apr&4575 (case sensitive).

After you logon with the initial password, you will be prompted to change to a new password. The new password MUST have 8 or more characters and satisfy 3 of the 4 rules as follows: Upper case, Lower case, Numbers, and Special character (Example: Flower2010).

4. Access Blackboard
Once you are in myCommNet, click **Blackboard** icon at upper right. Click on your **course name**. To go to another course, click **My Blackboard** (upper right) and click on the course name (MAT*137 for this course).

For technical assistance with logging on and use of Blackboard Learn, visit

www.mxcc.commnet.edu/distance