

COURSE SYLLABUS-Summer 2019

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

MAT*	137	Intermediate Algebra Online with Campus Requirement (CRN # 2083)
Department	Course No.	Course Title
3	3	
Credit Hrs.	# lecture hrs./week	
Prepared by	Dr. Joseph Murfin	May 2019
	Faculty Member	Date
Course prerequisites:	<ul style="list-style-type: none"> • Eligible for either <u>ENG*101E</u> or <u>ENG*101</u>, together with Math placement into MAT*137 • OR Eligible for either <u>ENG*101E</u> or <u>ENG*101</u>, and either MAT*085 or MAT*095/095I with a grade of "C+" or better 	

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

Meeting time (days/hours): **Online; Final Exam taken in Person**

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: 48782**
- **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 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 orientation materials, the syllabus, a tentative course calendar, summaries of your weekly topics/assignments, and announcements from the instructor (these will also be sent to your email). It is your responsibility to log onto Bb to check for announcements and read the weekly course assignments (under the “Course Content” link). You may also send me a message via the “message” link. Also make sure to review all of the material under “Syllabus and Overview” on the first day of the semester.

MyOpenMath: MyOpenMath (MOM) is a free online math learning environment. This is where you will find video lessons and other helpful course materials. This is also where you will complete homework, quizzes, online exams, and discussion posts. You will need to register for the website at <http://myopenmath.com> and use the course ID **48782** to enter my course. There is no enrollment key, so leave this blank. There is a calendar on MOM as well. Any changes to due dates will be reflected on the MOM calendar.

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. In addition, this course is accelerated (about 3 times faster than a normal online course!). It is crucial that you are doing work **EVERY DAY** this semester to be successful in the course. Do not wait until the day the assignments are due to complete them. If we were to meet in a classroom, you would be spending about 9 hours per week in class, and a minimum of another 12-15 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 each week and each day.

Homework: Each week you will be assigned homework assignment(s) that you are to complete on 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 several days, complete the homework by the due date, and then move on to the proceeding material. **In general, new homework assignments will be opened on Friday evenings at 11:59pm** and will be open for at least a week before the due date (typically longer). Before/while attempting the MOM homework, you will want follow along with the media examples (part of the Mini-Lesson and available on MOM) 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 MyOpenMath. 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 on 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. A short description of each assessment, including the amount of time you have to complete them, will be in your weekly assignments folder on Bb and will be listed on MOM. See the calendar in Bb for specific due dates. The expectation is that you take the quiz/test once you have completed and feel comfortable with the corresponding homework and lesson. Exams/Quizzes will be available approximately one week before the due date. You will be 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 OR QUIZZES WILL BE ACCEPTED EXCEPT IN THE MOST EXTREME CIRCUMSTANCES!** Make sure to watch the “MyOpenMath Quiz and Demonstration” video under the “Syllabus and Overview” link on Bb before attempting these assessments.

Discussions: You will have two weekly discussions throughout semester (one due on Sunday, and one due on Wednesday). These will be completed on MyOpenMath under the “Discussion Boards” drop down folder. 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 might be problems that relate to the material we are covering.

Final Exam: You will be required take your final exam on campus on **Wednesday July 3 from 12:00-2:30** in Wheaton Hall room 306. Please make every feasible effort to be available for this exam time. If you can absolutely not make this time, please contact me within the first week of classes. 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. You must bring a photo ID to the final exam.

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:

	Homework Average:	15%
	Quiz Average	15%
30%	Unit Exams Average (3 exams):	
	Discussion Average	10%
30%	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 (Note: if you are taking this class in the summer session, this service might not be available). Please try to take advantage of this if you are having any difficulty with the material. 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.

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/messaged me.

Message My Instructor in MOM: 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 preferable to emailing me about a specific problem.

Calendar: You will find a one-page calendar with assignment due dates for each week of the semester under the “Important Due Dates” link on the left task bar in Bb. I strongly encourage you to print this out during the 1st day of classes and use it as a reference each week so you don’t miss any due dates. If I change a due date for any reason, it will change on the MyOpenMath calendar, so please make sure to check this weekly.

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

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	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none">1. Provide multiple representations (e.g., words, symbols, graphs, tables) of simple rational functions or expressions by hand and/or using technology2. Determine identifying characteristics of rational functions or expressions3. Evaluate, simplify, and perform operations on simple rational functions or expressions4. Solve simple rational equations algebraically and/or graphically5. Solve real world applications involving rational functions and identify the appropriate domain of each application
5	Radical Functions and/or Expressions	<ol style="list-style-type: none">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 root2. Determine identifying characteristics of radical functions or expressions3. Evaluate, simplify, and perform operations on simple radical functions or expressions4. Solve simple radical equations algebraically and/or graphically5. Solve real world applications involving radical functions and identify the appropriate domain of each application6. 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.comnet.edu**.
3. Enter your **NetID** and **password**, click Login.

NetID: BannerID@student.comnet.edu,

Do not know your NetID? Visit this site to find out:

<https://www.comnet.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.comnet.edu/distance