Math 141 – Precalculus Online – Syllabus
Spring 2020

Instructor:	Mona Baarson
E-mail:	baarsonmonag@jccmi.edu
MyMathLab Website:	www.mymathlab.com
MyMathLab Course ID:	See "How to Sign Up for My Math Lab" instruction sheet
Office Hours:	by appointment

Note about e-mail: You can e-mail me a question any time.
I try to return e-mail within 48 hours, with the exception of weekends; if you e-mail after 3 pm on a Friday, you may not hear back from me until the following Monday.

When you e-mail, please **put MTH141 Online in the subject line followed by your name**.
So, the e-mail will come to me as: **Subject: MAT141 Online Your Name.**
I teach more than one class, so please identify the class you are in with your email.

Course Materials:

1. You will need MyMathLab. This is also included in your course registration fee. (Please see the "How to Sign Up for MyMathLab" instruction sheet.)
2. You will be sent a MAT 141 Course Pack with the notes and worksheets we will be using for the semester. This is included in your course registration fee. (We were just notified that these course packs were mailed out as of Friday, March 15, 2020 and are being expedited. You will have these by Monday or Tuesday of the next week.)
3. You will need access to graphing technology, such as a graphing calculator. I will be using a TI-84 during our class times together.
4. You will need a computer or a tablet with a webcam. This is required to do MML assignments, to participate in class, and for proctored testing.

Communication:

ZOOM:

- I will be using ZOOM for LIVE and in person, class sessions for the entire semester!!
- Although these sessions are not required, I really encourage you to attend these ZOOM sessions; it is definitely to your advantage to attend.
- Our class will meet every Monday and Wednesday from 10am – 12pm, via ZOOM.
- **Before we have our first Zoom Class, during our regularly scheduled class time, you will need to download the Zoom Application to your computer desktop and also to your phone. (If you think you might at some point use your phone to attend class.)**
- **Please see the documents on how to learn using Zoom and also how to use Zoom for the first time and to download the Zoom Application. These are found in JetNet Course Documents and MyMathLab Course Documents.**
- I will send a recurring link to join a ZOOM session during our regularly scheduled class times on Monday and Wednesday, from 10am-12pm.
- This link will be sent to your JC email.
- You will just simply click on the link just before 1pm each class day.

WEBCAM

- **Each student must have a webcam.**
- The video and microphone turned on for each class period.
- It is important that we be able to see each other and communicate with each other.
- Also, we will be working together in class on class work assignments.
- The web camera will be used to proctor the Midterm Exam and Final Exam.

EMAIL

- We will also communicate course updates and information through you JC Email address.
- Students are also encouraged to email outside of class time, using their JC email account.
- Announcements for MAT 141 will be sent through your JC email account.

REAL-TIME CONVERSATION

- If you would like to have a real-time conversation with me, please don't hesitate to let me know.
- I can set up a Zoom session for us so we can address any questions or concerns you might have.

Math 141 Online Precalculus
Course Format and Grading Procedures

Course Format

Live Online Class Sessions via ZOOM:

- Although these sessions are not required, I really encourage you to attend these ZOOM sessions; it is definitely to your advantage to attend.
- Our class is scheduled to have two live online class sessions per week (Monday and Wednesday from 10pm-12pm) using ZOOM.
- During these live class sessions, I will be teaching the material from the notes, answer questions students have about how to work specific problems, give information about course requirements and what is expected in terms of testing, and anything else we need to go over with respect to the class.

Zoom Videos:

- I will be recording the live class sessions via ZOOM.
- After class, I will be posting the links to the ZOOM videos in MyMathLab.
- If you are unable to attend the live class sessions, these videos will be available for you to watch.

Course Notes Videos:

- I will also have some videos over the course notes, with the links posted in MyMathLab.
- All of the course pack will not be filled in during our scheduled live sessions.
- So you will need to watch the videos and take notes using your course pack.
- If you are unable to attend class or if we do not go over specific problems in the course pack, you can use the course notes videos to learn the material or fill in the blanks.

Grading Procedures

First and foremost, it is extremely important that you understand that this is not a self-paced course! Deadlines must be met in order to receive credit for the assignment. The material has to be learned in a way that allows you to digest the concepts being taught. Therefore, we will have a Course Calendar by Weeks with Assignments and Due Dates.

- **The Course Calendar by Weeks is to be used in conjunction with the due dates found in MyMathLab.**
- **The Course Calendar by Weeks will help the student to know what sections and topics in the textbook need to be learned and completed each week in order to meet the due dates posted in MyMathLab.**
- **The official due dates for the assignments are in MyMathLab.**

On the **Course Calendar by Weeks**, you will find the various types of activities that we will be doing to receive a grade for this course. In order to complete the course, you must complete the requirements in each of the five categories: Homework, Quizzes, Unit Exams, **the proctored Midterm** and the **proctored Final Exam**.

You should also refer to the due dates found in **MyMathLab** to help you meet the official assignment due dates for the course.

MyMathLab Homework: ***MyMathLab Homework counts 15% of the final grade.***

- **Homework** assignments will be completed using MyMathLab.
- These assignments are done on a computer with internet access using MyMathLab.
- MyMathLab can be accessed at the website: www.mymathlab.com
- Homework due dates are posted in MyMathLab.
- **Note: You have an unlimited number of tries to do the homework. Thus, all of your homework should receive full credit, if you keep trying until you get a perfect score!**

MyMathLab Quizzes and Worksheets: ***MyMathLab Quizzes/Worksheets count 15% of the final grade.***

Quizzes

- **Quiz** assignments will be completed using MyMathLab.
- These assignments are done on a computer with internet access using MyMathLab.
- MyMathLab can be accessed at the website: www.mymathlab.com
- Quiz due dates are posted in MyMathLab.
- **Note: You have an unlimited number of tries to do the quizzes. Thus, all of your quizzes should receive full credit, if you keep trying until you get a perfect score!**

Worksheets

- Worksheets are part of your course pack.
- Some (but not all) of the worksheets will be assigned. I will let you know which ones need to be completed and submitted.
- Worksheets must be completed by the due date.
- You will be asked to submit your worksheets using the following procedure.
  1. Complete the assignment by hand (pencil and paper); be sure to write clearly and legibly.
  2. Convert your assignment to a pdf. You can scan it if you have access to a desktop/printer scanner, or you can scan and covert to a pdf using your phone and one of the free scanning apps. I like to use CamScanner or GeniusScan, but there are others out there as well. Use what works best for you.
  3. E-mail the scanned file to yourself (can be done from within the GeniusScan app) and save it on your computer.
  4. Locate the assignment in JetNet, and click on the link. Submit the assignment by simply dragging and dropping the pdf file into the designated area.

MyMathLab Unit Exams: ***MyMathLab Unit Exams count 30% of the final grade.***

- **Unit Exams** will be completed using MyMathLab.
- These assignments are done on a computer with internet access using MyMathLab.
- MyMathLab can be accessed at the website: www.mymathlab.com
- Unite Exam due dates are posted in MyMathLab.
- You will be able to take these tests on your own with your notes available, but will be asked to certify that your work is entirely your own, and you have not used outside help to complete the tests.
- You will be asked to submit the work for your Unit Exams using the following procedure.
  1. Complete the assignment by hand (pencil and paper); be sure to write clearly and legibly.
  2. Convert your assignment to a pdf. You can scan it if you have access to a desktop/printer scanner, or you can scan and covert to a pdf using your phone and one of the free scanning apps. I like to use CamScanner or GeniusScan, but there are others out there as well. Use what works best for you.
  3. E-mail the scanned file to yourself (can be done from within the GeniusScan app) and save it on your computer.
  4. Locate the assignment in JetNet, and click on the link. Submit the assignment by simply dragging and dropping the pdf file into the designated area.
- **Note: You have 3 tries to do the Unit Exams. Thus, all of your Unit Exams should receive full credit, if you keep trying until you get a perfect score!**

Midterm Exam: ***Midterm Exam count 20% of the final grade.***

- **The Midterm Exam** will be a proctored, closed-book exam.
- The exam must be taken while being monitored via a web camera.
- You will take the Midterm Exam during the normal scheduled ZOOM class session.
- If you are unable to take the Midterm Exam during the scheduled class time, you can make other arrangements directly with your instructor.
- Other arrangements for the Midterm Exam must be made well in advance of the scheduled Midterm Exam.
- Midterm Exams not taken by the due date will receive a grade of zero except under extreme, well-documented circumstances arranged ***in advance*** of the due date with the instructor.

Final Exam: ***Final Exam count 20% of the final grade.***

- **The Final Exam** will be a proctored, closed-book exam.
- The exam must be taken while being monitored via a web camera.
- You will take the Final Exam during the normal scheduled ZOOM class session.
- If you are unable to take the Final Exam during the scheduled class time, you can make other arrangements directly with your instructor.
- Other arrangements for the Final Exam must be made well in advance of the scheduled Final Exam.
- The Final Exam must be taken by the last day of the course.

Grading Information:

- A 2.0 or "C" is a passing grade. Only courses with passing grades count toward graduation.
- Other colleges transfer in only courses with passing grades.
- Many financial aid sources, including most employers, require passing grades.
- Additionally, earning less than a 2.0 in a class results in being unable to participate in the next level of courses in a discipline which requires this course as a pre-requisite.
- Registering for the next course sequence without passing the pre-requisite course may result in you being dropped from that class.

GRADES WILL BE BASED ON THE FOLLOWING SCALE:

Grading Scale Weighted Average (%)	Course Grade	Grading Policy
90 – 100%	4.0	
85 – 89%	3.5	My Math Lab Homework: 15%
80 – 84%	3.0	Quizzes/Worksheets: 15%
75 – 79%	2.5	Unit Exams: 30%
70 – 74%	2.0	Midterm Exam: 20%
65 – 69%	1.5	Final Exam: 20%
60 – 64%	1.0	
50 – 59%	0.5	
0 – 49%	0.0	

Purpose and Learning Objectives

Course Description: Major emphasis is on the concept of functions. The students will study polynomial, rational, exponential, logarithmic, trigonometric and inverse trigonometric functions, their properties, graphs, and related equations and applications. Additional topics include systems of equations, matrices, conic sections, sequences and series, and probability. Graphing calculator required, TI-83 Plus preferred.

Prerequisite(s): Math 131, Math 139 or equivalent

Please note: In order to be enrolled in Math 141, you should have received a 2.0 or better in Math 139 (or its equivalent). Also, in order to be successful, you must receive a grade of at least 2.0 in Math 141 in order to enroll in a subsequent math course, if Math 141 is a prerequisite to that subsequent course.

Course Goals: The purpose of this course is to develop an understanding of functions, advanced concepts of algebra and trigonometry. We will also learn to use problem solving techniques to obtain a sense of how and why algebra is used, and to be able to relate these problems and use the learned problem solving techniques to real life applications. We will integrate the use of technology throughout the course by making use of the Graphing Calculator (TI-84 Plus). Great emphasis will be placed on understanding of terms, concepts, principles and theories rather than cramming and memorization.

Performance Objectives:

I. Core Course Objectives

Students completing Math 141-Precalculus will be able to:

1. Simplify polynomial, radical , and rational expressions, and algebraic expressions involving radicals, integer exponents, rational exponents, trigonometric functions, combinations, permutations, factorials, series, sequences, and matrices using appropriate algebraic properties, algebraic skills, and algorithmic processes.
2. Use appropriate algorithmic processes (this includes processes that involve matrices) to solve:
   - linear, absolute value, quadratic, radical, rational, exponential, and logarithmic equations
   - linear, absolute value, polynomial, and rational inequalities
   - linear and nonlinear systems of equations
   - trigonometric and inverse trigonometric equations
3. Manipulate and identify functions graphically, symbolically, and numerically.
4. Solve application problems involving many different subject areas using algebraic processes, counting techniques, and the binomial theorem.
5. Apply fundamentals of right triangle trigonometry and solve application problems.
6. Use appropriate technology (such as a graphing calculator) to enhance the understanding of objectives.

II. General Education Outcomes (GEO) & Essential Competencies (EC)

General education outcomes and essential competencies assesses the student's attainment of skills obtained during their completion of a degree. These skills are defined consistent with the college mission, and dispersed across a multitude of courses in the student's program. Courses fulfilling one of more of these outcomes assess for achievement once/year.

Because the vision of Jackson College includes a variety of educational, cultural and economic goals, the general education requirements involve both traditional intellectual pursuits and practical skill development. As the general education requirements are designed to ensure breadth and depth of knowledge, they are met through carefully designed programs of study. Programs of study help students meet these goals by addressing each of the skill areas identified in the **General Education Outcomes.** These are skills which the Jackson College Board of Trustees has determined students should develop or enhance while enrolled in the college.

GEO	Description
1	Write clearly, concisely and intelligibly
2	Speak clearly, concisely and intelligibly
3	Demonstrate computational skills and mathematical reasoning
4	Demonstrate scientific reasoning
5	Understand human behavior and social systems and the principles which govern them
6	Understand aesthetic experience and artistic creativity
7	Understand and respect the diversity and interdependence of the world's peoples and cultures

Essential Competencies (EC)

In addition to the GEOs, the college is committed to helping students develop three Essential Competencies. These skills are embedded in each program of study, and are shaped by the program focus and the pathway within which the program is hosted.

EC	Description
1	Think critically and act responsibly
2	Work productively with others, recognizing individual contributions to group success
3	Exhibit technological literacy

MATH 141 addresses GEO 3: Demonstrate computational skills and mathematical reasoning

Instructional Techniques and Procedures

This course usually consists of mostly instruction, group work and classroom demonstrations using the graphing calculator (TI84 Plus).

Course Information and Policies

ATTENDANCE Policy:

Class attendance is so very important and is the primary reason for success in our course.

- Attendance is required and will be taken in various formats.
- As per college policy, I will be monitoring participation in class.

I define active participation as:

- Attending our bi-weekly ZOOM class sessions
- Completing assignments in MML such as homework, quizzes and unit exams
- Submitting assigned work such as worksheets and work for exams in JetNet
- Sending the instructor emails and communicating with instructor about the course

If you fail to participate in the course for a period of one week, you will be dropped from the class.

Important Dates:

Be sure to check out the JCC Academic Calendar for important dates such as holidays with no classes, last day to withdraw, etc.

Academic Honesty:

(Excerpt from JCC policy; see instructor for a copy of the complete policy.) Academic Honesty is expected of all students. It is the ethical behavior that includes producing their own work and not representing others' their own, either by plagiarism, by cheating or by helping others to do so. Faculty members who suspect a student of academic dishonesty may penalize the student by…assigning a failing grade for the paper, project, report, exam or the course itself.

Incompletes will be given only in accordance with JC policy. (Excerpt from JCC policy; see instructor for a copy of the complete policy.) A student may request an incomplete from the instructor. The incomplete will be granted only if the student can provide documentation that his or her work up to that point is sufficient in quality, but lacking in quantity, due to circumstances beyond the student's control. Furthermore, a written plan for making up the missing work within one semester must be completed by the student. Final determination of whether an incomplete will be given is the instructor's decision.

Please Note: ***I will not give an incomplete simply to avoid a failing grade.***

General College Policies:

You should read the policies and procedures of the college as specified in the "Student Handbook" .

Extra Credit:

The mathematics department strongly recommends that extra credit not be offered in mathematics courses. In order to foster a collegiate environment, maintain the integrity of student grades, and provide for proper student placement and advancement through sequenced courses, the department believes this to be in the best interests of both students and faculty. Extra credit is understood to include bonus points on a test or assignment, separate extra credit assignments, and other forms of providing opportunities for more than 100% credit.

Please Note: ***I do not give an extra credit on any assignments.***

Instructional Philosophy:

Education is a self-initiated, active, goal-directed process, leading to a change and/or expansion of the students understanding of and ability to use the subject material. The student is expected to be accountable for the learning process.

The instructor should be viewed as a facilitator and resource person to assist in the process.

Getting Help with This Class

Office Hours: By Appointment:

Please set up a time for a virtual meeting with me if you need questions answered. We can meet by Zoom to address any questions or concerns. The most important thing is to ask for help as soon as you think you need it – don't let small math problems become large ones!

Supplemental Instruction:

We are fortunate to have an SI leader in our class. He will be setting up extra help sessions via Big Blue Button for your use on a regular basis throughout the semester.

Tutoring:

- There are also personal tutors available through the Center for Student Success.
- If you feel that you need a personal tutor, please send me an email and I will put you in touch with the person in charge of this service.

Study Groups:

I strongly encourage you to make a friend or friends in class that you can get together with outside of class. One of the best ways to study and to learn is by helping one another.
Like "they" say, "Two heads are better than one."

Calculator Help

- You can get **Online Help** with most major brands and models of graphing calculator.
- If you are using the TI-84 you are welcome to come see me during office hours to get help.
- We will also be learning the calculator in class as we progress through the course material.

MyMathLab:

- There are videos, extra problems, sample exams, lecture notes, PowerPoint lectures and more available in MyMathLab.
- It's a great resource! In particular, the **Study Plan** in MyMathLab can help with studying for exams as it gives you unlimited extra problems to do for practice.