

VALENCIA COLLEGE

Dr. Nichole Segarra
Department of Mathematics

Online MAC 1140 Precalculus Algebra CRN 31326 Summer 2022 (12 weeks)

Instructor:	Dr. Nichole Segarra
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Virtual Student Engagement hours:	Please do not hesitate to reach out to me via Atlas email or Canvas message at any time. I will respond within 48 hours. We can also set up a time to chat in-person, via Zoom, or over the phone. I am here to support you!
Prerequisites:	Minimum grade of C in MAC 1105 or appropriate score on an approved assessment.

Course Description

Algebra preparation for the calculus sequence. Topics include a symbolical, graphical, and numerical analysis of polynomials, exponential, logarithmic, power, and rational functions; matrices, sequences, induction, binomial theorem and conic sections. Applications emphasizing connections with other disciplines and with the real world will be included. Technology tools will be utilized in addition to analytical methods. Minimum grade of C required if MAC 1140 is used to satisfy Gordon Rule and general education requirements. Credit will not be given for both MAC 1140 and any of the following: MAC 1132, MAC 1142, MAC 1147. 3 credit hours.

Course Outcomes

Valencia Student Core Competencies

The faculty of Valencia College has identified [four core competencies](#) that define the learning outcomes for a successful Valencia graduate:

1. **Think:** Think clearly, critically and creatively, analyze, synthesize, integrate and evaluate in many domains of human inquiry.
2. **Value:** Make reasoned judgments and responsible commitments.
3. **Communicate:** Communicate with different audiences using varied means.
4. **Act:** Act purposefully, effectively, and responsibly.

Student Learning Outcomes

Upon successful completion of this course, students will be able to:

1. Determine solutions for mathematical statements in various forms.
 - Solve systems of equations and inequalities using various methods.
 - Perform matrix operations.

- Solve polynomial and rational inequalities graphically and algebraically.
 - Solve applications of linear and nonlinear systems, and algebraic functions.
2. Analyze algebraic curves using various methods.
- Graph an equation of a conic section.
 - Convert general form of a conic section to standard form.
 - Construct an equation to represent a given graph.
 - Graph functions.
 - Graph any function using transformations.
 - Graph a given piecewise function.
3. Analyze sequences and series.
- Generate the terms using the definition of sequence and series.
 - Find the sum of a series.
 - Find the formula for the nth general term given the terms.
 - Solve applications of sequences and series.

Textbook and Required Materials

Textbook

You are required to purchase access to MyLab Math (the online homework system and online textbook for A Graphical Approach to Precalculus with Limits, 7th Edition, by Hornsby, Lial, and Rockswold ISBN 1323918264 / 9781323918265). This access code can be purchased through the [online Valencia bookstore](#) and contains the course eBook. The hard-copy textbook for the course is optional. Directions on where to enter the access code are provided in the week 1 module in Canvas (our learning management system and location of all course materials).

All Homework, Quizzes, and Exams will be completed using MyLab Math embedded in Canvas. For MyLab Math technical support, you will need to [submit a Tech Support Issue](#). After you enter your information, you will get a case number and a phone number to call if needed. MyLab Math staff are available to troubleshoot any technical problems that you may encounter with their software. You can reach out to me if you are experiencing a technical issue and I will do my best to assist. If I am unable to help, then I will help you identify the best contact for support.

Graphing Calculator

A TI 84 graphing calculator is required for this course and is what I use in the online videos. It will be helpful in verifying graphing problems and performing complex and tedious computations. If you use another graphing calculator, I will do the best I can to assist you, but please know that it may take me a little longer to respond to your needs. If you do not have a calculator, [you can check one out](#) and pick it up from at the Osceola campus. Additionally, [Desmos](#) has free graphing technology, and wabbitemu and GrafNCalc 8 are free apps available on cellphones. If you are receiving financial aid, it may be possible to utilize some of your funds to purchase your calculator. Check with the [financial aid office](#) for more information.

Course Policies

Expectations of the student

You are expected to check your Atlas email account, Canvas messages, and Canvas announcements daily. You can expect to devote at least nine (9) hours each week to this course. For guidelines on how to interact with me and your peers in an online learning environment, read through [Our Practice of Respect and Community Building](#) from Valencia's Peace & Justice Institute.

Expectations of the instructor

I will provide feedback on submitted assignments within seven (7) days. I will address students following the guidelines as indicated in [Our Practice of Respect and Community Building](#) from Valencia's Peace & Justice Institute. I will notify students of changes to the course work via Canvas messages and/or Canvas announcements.

Communication Policy

All Canvas messages and Atlas emails should be respectful and professional. Atlas emails sent to me must contain your name and a complete message. Canvas messages and Atlas emails will be answered within 48 hours after they are received.

Technology Access and Necessary Skills

This course requires the use of technology and relies heavily upon online work. You will need regular and reliable access to a computer and the internet to complete the work of this course. I want you to be successful in this class. One key tip to earning that success is by starting your assignments earlier in the week, so that you are able to budget plenty of time for completion and can address any issues that may arise. If you have any technological needs, please reach out to me so that I can find support for you.

All of our course materials are located inside of Canvas. Canvas lists [minimum computer specifications](#) and [supported browsers](#) to ensure compatibility. The [Chrome browser](#) is recommended. Students are also encouraged to install the Canvas app on their [Android](#) phone or [iPhone](#) in order to receive mobile notifications and to access your courses via your mobile device. Valencia College also provides [student support and resources for general technical issues or frequently asked questions](#).

Grading Scale

89.5% -100% A
79.5%-89.4% B
69.5%-79.4% C
59.5%- 69.4% D
59.4% and lower F

Grades are posted in the Canvas Gradebook (in our Canvas course, click on Grades on the left side of the page). Please refer to the Canvas gradebook and not the gradebook in MyLab Math. Your final grade will be viewable in Atlas on August 5, 2022.

Grading Breakdown

Your grade will be calculated based on the following categories:

1. Discussions (10% of Final Course Grade: 5 discussions worth 2% each)

There will be five discussion prompts in Canvas that you will be required to post an initial reply to as well as responses to your peers posts. You must follow the directions per each prompt in order to earn full credit (a rubric is provided in Canvas). The due dates for the discussion posts can be found in the course schedule.

Discussion Deadline Policy: I do not allow extensions on discussions. Think of a discussion as a conversation – if you participate late, the conversation had already ended. I encourage you to get your discussions done earlier in the week as opposed to on the due date, so that if an unexpected circumstance arises, your discussion is already complete.

2. Homework (20% of Final Course Grade)

There will be a homework assignment through MyLab Math posted in Canvas for each section covered in the modules. Completion of homework on a regular basis is crucial to your success in this course. It is automatically graded when submitted. Each homework problem can be attempted as many times as possible until you achieve a mastery of the topic. You have unlimited attempts until the due date. The due dates for the homework assignments can be found in the course schedule.

Homework Deadline Policy: Please do your best and work ahead of schedule to get your homework done early. Timely, successful completion of homework is critical to success on quizzes and exams. I realize that unexpected emergencies happen. Please reach out to me ASAP if you are unable to complete an assignment as a result of an emergency. I reserve the right to determine if the emergency warrants an extension on any assignment.

3. Quizzes (20% of the Final Course Grade: 5 quizzes worth 4% each)

There will be five quizzes through MyLab Math posted in Canvas worth 4% each. The quizzes are timed and must be completed in one sitting. You will want to make sure that you secure a reliable Internet connection when taking the online quizzes. A list of the objectives that are covered on the quizzes will be provided in advance. The due dates for the quizzes can be found in the course schedule.

Quiz Deadline Policy: If you get “locked out” of a quiz in advance of the due date of the quiz, I will reopen the quiz for you to allow you to reenter. This can be very stressful for you, so please make sure you have a reliable internet connection before starting a quiz. I realize that unexpected emergencies happen. Please reach out to me ASAP if you are unable to complete a quiz as a result of an emergency. I reserve the right to determine if the emergency warrants an extension on any quizzes.

4. Exams (50% of the Final Course Grade: 2 exams worth 25% each)

There will be a midterm exam and a final exam through MyLab Math posted in Canvas worth 25% each. The exams are timed and must be completed in one sitting. You will be required to show your work and submit your work for each problem by uploading a pdf file into Canvas. You can record your work with a tablet/stylus or if you write your work on paper, you can scan it to submit it. If you do not own a scanner, you can scan your work using a number of free apps on your phone. I also include instructions on how to use CamScanner (a popular free scanning app) with the exam directions. Once your exam is submitted, you will have 10 minutes after the submission time to upload your scanned work

in Canvas. If the work is late or if it is missing, you will earn a zero for the exam. Exams will be open to take for the duration of at least four days. A list of the objectives that are covered on the exam as well as a review for each exam will be provided in advance. The due dates of the exams can be found in the course schedule.

Exam Deadline Policy: Extensions for exams will only be considered for emergency circumstances. You must contact me within 24 hours of the exam deadline (unless it is physically impossible to do so) if an emergency circumstance is preventing you from completing your exam by the deadline. I reserve the right to determine if the emergency warrants the extension of the exam deadline, and I may request documentation from you regarding the emergency. Please do not wait until the last day to take your exam.

College Policies

A full description of all College policies can be found in the College Catalog at <http://valenciacollege.edu/catalog/>; Policy Manual at <http://www.valenciacollege.edu/generalcounsel/>. Additional policy information can be found in the [Student Handbook](#).

Student Conduct Policy

Valencia is dedicated not only to the advancement of knowledge and learning but also to the development of responsible personal and social conduct. As a registered student, you assume the responsibility for conducting yourself in a manner that contributes positively to Valencia's learning community and that does not impair, interfere with, or obstruct the orderly conduct, processes, and functions of the college as described in the [Student Code of Conduct](#).

No Show Policy

Class attendance is required for online classes. By the "Program Integrity and Documentation of Online Course Attendance" published by the U.S. Department of Education (ED) and adopted by Valencia College, any student registered in an online course must show attendance by participating in an "academically-related activity." In this course, you will demonstrate attendance by completing all of the tasks below in the first week of class by May 15, 2022:

- Register for MyLab Math (instructions are included in the Week 1 Module in Canvas)
- Send me a message in Canvas with the specified information found in the Week 1 Module in Canvas
- Introduce yourself to the class by completing the Discussion 1 post and reply to a classmate in Canvas

If you do not meet the requirements stated above, you will be withdrawn as a No-Show due to non-compliance with the ED attendance policy. If you are withdrawn as a "no show," you will be financially responsible for the class and a final grade of "WN" will appear on your transcript for the course. Please reach out to me as soon as possible if you are experiencing any challenges with completing the Week 1 Module check-in process. I will send a Canvas message to students who have not successfully completed the check-in process prior to the end of the first week to make sure they know what they need to complete in order to not be withdrawn.

Refund of Fees

You are still eligible to get back all tuition and refundable fees if you drop the course by May 16, 2022, 11:59p.m. Being enrolled in a course for credit beyond this drop/refund deadline counts as an attempt.

Attendance and Withdrawal Policy

Per [Valencia policy](#) a student who withdraws from class before the established deadline for a particular term will receive a grade of a "W". Students are not permitted to withdraw themselves after the withdrawal deadline. As this is an online course, on-campus attendance in the traditional sense cannot be enforced. Instead, the frequency of your visitations to the course site (Canvas) will be monitored. In the event of an extended absence – that is, not logging onto course sites for more than 7 days, or not replying to my emails or messages in a timely manner (3 days) – you may be withdrawn. Please contact me as soon as possible to indicate the reason for any inactivity. A student who is withdrawn for violation of the class attendance policy will receive a grade of "W". Any student who withdraws or is withdrawn from a class during a third or subsequent attempt in the same course will be assigned a grade of "F." If you do not intend to complete the course, you must withdraw yourself prior to the withdrawal date of July 5, 2022 for full term courses.

Unexpected Events

If you are unable to participate in the course due to illness, family emergency, etc., please communicate with me as soon as possible in order to create a plan for the best course of action. In the case of a prolonged online absence of one week or more, continuation in the course will be determined on a case-by-case basis through discussion between you and myself.

International Students (F-1 or J-1 Visa):

Please be advised that withdrawal from this course due to attendance may result in the termination of your visa status if you fall below the full-time enrollment requirement of 12 credit hours. Consult the [International Student Services office](#) for more information.

Academic Integrity

All forms of academic dishonesty are prohibited at Valencia College. [Academic dishonesty](#) includes, but is not limited to, acts or attempted acts of plagiarism, cheating, furnishing false information, forgery, alteration or misuse of documents, misconduct during a testing situation, facilitating academic dishonesty, and misuse of identification with intent to defraud or deceive.

By registering in an online course, you agree to:

- Rely solely on your own work in connection with all assessments, problems, homework and assignments (unless collaboration is expressly permitted)
- Refrain from any activity that would dishonestly or fraudulently improve your results or disadvantage others in the course
- Maintain only one user account and not let anyone else use your username and/or password
- Not access or attempt to access any other user's account, or misrepresent or attempt to misrepresent your identity

Whenever you use ideas, wording, or organization from another source, the source shall be appropriately acknowledged. I may choose to consider the act of academic dishonesty to be an academic offense, and use my academic judgment to assign an academic sanction to the responsible

student, following a discussion of the matter with the student and any other appropriate persons. Academic penalties may include, without limitation, one or more of the following: loss of credit for an assignment, examination, or other assessment; withdrawal from course; a reduction in the course grade; or a grade of "F" in the course. I may choose to consider the act of academic dishonesty to be a violation of the Valencia Student Code of Conduct. Disciplinary penalties for academic dishonesty may include, without limitation, warning, probation, suspension and/or expulsion from the College.

[Academic Integrity Valencia College](#)

[Academic Dishonesty Policy Valencia College Policy](#)

Third Party Software & FERPA Policy

Valencia College has a firm commitment to protecting the privacy rights of its students. Any use of student records and information in this course will comply with the [Family Educational Rights and Privacy Act \(FERPA\)](#), including third-party tools and services used in this course. Privacy policies for the tools used in this course are the [Valencia College privacy policy](#), [Canvas privacy policy](#), and [Pearson MyLab Math privacy policy](#).

Help and Support

Learning Support Services

Learning Support Services provides students with academic support through distance tutoring, face to face tutoring at the campuses, writing consultations, library services, and resources. Tutoring is offered in most academic disciplines including math, science, foreign languages, English for academic purposes (EAP), computer programming and writing assistance for any course. Assistance with library research can be accessed online through Atlas or the tutoring LibGuide. For more information on how to access tutoring and library research assistance, please visit the college-wide Learning Support Services LibGuide at:

<https://libguides.valenciacollege.edu/distancetutoring>

Please note: Brainfuse is our new 24/7 online tutoring and learning hub, which is available to all of Valencia's students. This service is best used as a back-up to Valencia's Distance Tutoring service, not as a replacement. Brainfuse is accessible through Canvas or by visiting <https://libguides.valenciacollege.edu/distancetutoring> and clicking on the Brainfuse tab.

Keep Learning Webpage

Valencia's [Keep Learning](#) website has tips on how to get started in an online class, how to manage your time in an online environment, and how to communicate with your instructor and classmates online.

Additional Video Resources

In addition to my instructional videos posted in Canvas, there are videos posted in MyLab Math. To access them:

1. Log in into your course in MyLab Math.
2. Click on Multimedia Library.
3. Choose the chapter, the section, then check the PowerPoint box for slides, example video for videos, or video for other videos.

Video resources in addition to the ones found in MyLab Math and Canvas include:

- [Valencia Professor Misty Bozzaco's Videos](#)
- [Valencia's Osceola Campus Learning Support YouTube Channel](#)
- [Valencia's Osceola Math Depot YouTube Channel](#)
- [Valencia's East Campus Math 24/7 Videos](#)

Disability Accommodations

Any student who feels he/she has the need for special adaptations to the learning environment due to a disability is asked to schedule an appointment with the [Office for Students with Disabilities](#). Students with disabilities who qualify for academic accommodations must provide a letter from the [Office for Students with Disabilities \(OSD\)](#) and discuss specific needs with the professor, preferably during the first two weeks of class. The Office for Students with Disabilities determines accommodations based on appropriate documentation of disabilities. If you have a documented disability, please feel free to speak with me. This will ensure that the appropriate reasonable accommodations will be implemented.

Baycare Student Assistance Services

Valencia College strives to ensure all our students have a rewarding and successful college experience. To that purpose, Valencia students can get immediate help with issues dealing with stress, anxiety, depression, adjustment difficulties, substance abuse, time management as well as relationship problems dealing with school, home or work. [BayCare Behavioral Health Student Assistance Program \(SAP\)](#) services are free to all Valencia students and available 24 hours a day by calling (800) 878-5470 or via email at BayCareSAP@baycare.org. If needed, the counselor may refer the student to appropriate resources or to speak face-to-face with a licensed counselor.

Disclaimer Statement

Changes to the course schedule may be made at the discretion of the professor, and students will be notified of any changes in Canvas announcements, Canvas messages, and/or Atlas email.

MAC 1140 Course Schedule

(Note: subject to change with fair notice.)

Week	Sections Covered	Assignments Due
1 M 5/9 through Su 5/15	Syllabus/Course Introduction Section 4.1 Section 4.2	R 5/12: Discussion 1 initial post due Su 5/15: Registration for MyLab Math due Canvas check-in message due MyLab Math Orientation closes (Optional) Sections 4.1 and 4.2 homework due Discussion 1 reply to a classmate due
2 M 5/16 through Su 5/22	Section 4.3 Section 4.4	Su 5/22: Sections 4.3 and 4.4 homework due Quiz 1 due
3 M 5/23 through Su 5/29	Section 5.2 Section 5.3	R 5/26: Discussion 2 initial post due Su 5/29: Sections 5.2 and 5.3 homework due Discussion 2 reply to a classmate due
4 M 5/30 through Su 6/5	Section 6.2 Section 6.3 Section 6.4	Su 6/5: Sections 6.2, 6.3, and 6.4 homework due
5 M 6/6 through Su 6/12	Section 6.5 Section 6.6	R 6/9: Discussion 3 initial post due Su 6/12: Sections 6.5 and 6.6 homework due Quiz 2 due Discussion 3 reply to a classmate due
6 M 6/13 through M 6/20	Midterm Exam Week	M 6/20 : Midterm Review Quiz closes (optional) at 4pm Midterm Exam due by 4pm
7 T 6/21 through Su 6/26	Section 7.2 Section 7.3	Su 6/26: Sections 7.2 and 7.3 homework due
8 M 6/27 through Su 7/3	Section 7.5 Section 7.8	R 6/30: Discussion 4 initial post due Su 7/3: Sections 7.5 and 7.8 homework due Discussion 4 reply to a classmate due
9 M 7/4 through Su 7/10	Section 8.1 Section 8.2	Su 7/10: Quiz 3 due Sections 8.1 and 8.2 homework due
10 M 7/11 through Su 7/17	Section 12.1 Section 12.2	Su 7/17: Quiz 4 due Sections 12.1 and 12.2 homework due

Disclaimer: All links open in a new window.

Week	Sections Covered	Assignments Due
11 M 7/18 through Su 7/24	Section 12.3 Section 12.5	R 7/21: Discussion 5 initial post due Su 7/24: Sections 12.3 and 12.5 homework due Quiz 5 due Discussion 5 reply to a classmate due
12 M 7/25 through M 8/1	Final Exam Week	M 8/1 : Final Review Quiz closes (optional) at 4pm Final Exam due by 4pm

Important Dates

Start Date: 05/09/22

End Date: 08/01/2022

Withdrawal Deadline: 07/01/2022

College Closed: 06/30/2022, 07/04/2022

College Calendar: <http://valenciacollege.edu/calendar>