

# MAC 1140 Precalculus Syllabus (Spring 2023)

State College of Florida, Mathematics Department

## Instructor Contact Information

Instructor: Claire Geiger

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Office: Venice Campus, Building 600, Office #623

Office Hours: MW: 11am – 12:30pm and 2pm – 2:30pm

TR: 11am – 1:30pm

F: 9am – 10am virtually via Microsoft Teams (See Canvas)  
(Other times by appointment)

STEM Assistant Dean: Stephanie Cook, [cooks@scf.edu](mailto:cooks@scf.edu)

Free SCF Virtual Tutoring: [Tutoring and Academic Success Website](#)

## Course Description

This course meets Area II requirements for both the A.A. and the A.S. general education requirements. Topics include the study of polynomial, rational, absolute value, exponential, and logarithmic functions. An emphasis will be placed on solving applications by mathematical modeling. Other topics include matrices, system of equations and inequalities, and conic sections. This course is intended for students whose major requires the calculus sequence. Use of a graphing calculator is integrated throughout this course. Mathematics Student Learning Outcomes are available at [Mathematics Student Learning Outcomes](#) and in the math labs.

## Student Learning Outcomes

Upon successful completion of this course, the student should be able to:

1. Find the equation and graph of a composite function.
2. Use the role of composition of functions to decide if two functions are inverses of each other.
3. Identify functions that are one-to-one.
4. Determine the minimum and maximum values of a given function.
5. Identify the domain, end-behavior asymptote(s), horizontal asymptote(s), vertical asymptote(s), and translations, and use these to graph a rational function.
6. Solve application problems requiring the graphing of a rational inequality.
7. Sketch the graph of a logarithmic equation and exponential equation using transformations.
8. Use the Properties of Logarithms to write the logarithmic expression as a sum, difference, or product of simple logarithms.
9. Use the determinant of a matrix to decide if the matrix has an inverse.
10. Solve a system of linear equations and inequalities.
11. Solve applications problems using matrices.
12. Identify sequences and series and find limits and sums.
13. Use the Binomial Theorem.
14. Solve systems of linear equations using inverse matrices.
15. Identify a sequence as arithmetic or geometric and find recursive and explicit formulas for the  $n$ th term.
16. Find the sum of a finite arithmetic or geometric series.
17. Evaluate the sum of a series written in summation notation.
18. Write a proof using mathematical induction.
19. Use the Binomial Theorem to expand a binomial raised to a power.
20. Use translations to graph conic sections not centered at the origin.

## Prerequisites

MAC 1105 with a "C" or better. Student enrollment in any mathematics course is contingent upon approval of the Mathematics Department. This means that students who have been misplaced may have their schedule changed.

## Gordon Rule

This course meets the Florida State Board of Education Rule Number 6A-10.30. For the purpose of this rule, a grade of "C" or better shall be considered successful completion.

## Required Text, Materials, and Technology

- A *MyLab Math* Access Code for *College Algebra*, 11<sup>th</sup> Ed., by Sullivan. This comes with an online e-textbook.
- TI83 Series or TI84 Series graphing calculator. If a student uses another calculator, then this must be approved by the instructor at least one week in advance of an exam, or else the student may not be allowed to use the calculator on the exam. Phones may not be used on exams.

## Attendance Policy

Students are expected to attend all classes in full. More than 3 absences is considered excessive and could result in course withdrawal (see Faculty Withdrawal section). Attendance is taken at the beginning of each class. If a student is late to class, it is the student's responsibility to contact the instructor after class to have the attendance log changed from "absent" to "late". If a student needs to leave class early, the student should let the instructor know before class so that the absence can be marked as "communicated partial absence". If a student knows that they cannot attend class, they are welcome and encouraged to let their instructor know before-hand, but this is optional. It is advised that all students contact their instructor as soon as possible any time an absence exceeds 3 to avoid withdrawal (see Faculty Withdrawal section). It should also be noted that arriving late and leaving early may disrupt class.

## No Show Policy

Students who do not drop a course that they have never attended will be reported as a No-Show and dropped from the course by the instructor during the No-Show period, which is generally the first week of classes.

## Grade Calculation

Grades are kept in Canvas, not *MyLab Math*.

50% 4 Tests

25% Final Exam (60% or higher needed on the final in order to earn a grade of A, B or C in the class)

10% Quizzes/Reviews

15% Homework

A: 90 – 100%, B: 80 – 89%, C: 70 – 79%, D: 60 – 69%, F: Below 60%

Both of the following two conditions must be satisfied to successfully pass this class with an A, B, or C:

1. 60% or higher on the final exam
2. 70% overall course grade after final exam is entered

The lowest quiz grade and 3 lowest homework grades will be dropped at the end of the semester. These dropped grades are intended to be used for emergencies and unexpected circumstances that inevitably occur every semester. Thus, students should not use dropped grades for anything other than emergencies.

## Late Work

Homework may be completed late in *MyLab Math* up until the evening of the corresponding test. Otherwise, no other late work is accepted.

## Homework (HW)

Homework is completed in *MyLab Math*. Check Canvas and *MyLab Math* for the due dates. The 3 lowest HW grades will be dropped at the end of the semester; These should be used for emergencies. Homework may be completed late up until the evening of the corresponding test.

## Quizzes/Reviews

Quizzes/Reviews are completed in *MyLab Math* and they are open book. See Canvas for quiz due dates. The lowest quiz grade will be dropped at the end of the semester and it should be used for emergencies.

## Exams

Exams are closed book, paper and pencil exams taken in class. There are 4 tests and a cumulative final exam. The final exam date is available in Canvas. Students shall review the final exam date and email their instructor during the first week of classes with any schedule conflicts and to let the instructor know of any scheduled absences and the instructor will make an effort to work with the student. Otherwise, students are expected to schedule life around classes so that they can attend all exams.

If an emergency arises and a student is not able to take an exam, the missed exam might be able to be replaced with the final exam grade if appropriate. In this scenario, the student should contact their instructor via email as soon as appropriately possible and provide documentation if/when possible for consideration. Only one test can be replaced with a final exam grade, so missing a second test will result in a zero for the second test.

## Statement of Plagiarism:

Plagiarism is the use of ideas, facts, opinions, illustrative material, data, direct or indirect wording of another scholar and/or writer—professional or student—without giving proper credit. Expulsion, suspension, or any lesser penalty may be imposed for plagiarism.

## Religious Observances

Students who expect to be absent due to religious observances must provide their instructor with advance notification, in writing, of the purpose and anticipated length of any absence by the end of the first week of classes.

## Disability Resource Center:

State College of Florida, in accordance with the Americans with Disabilities Act, will provide classroom and academic accommodations to students with documented disabilities. Students must submit application and documentation to the Disability Resource Center (DRC). Once registered, the Memorandum of Accommodations containing all approved accommodations, important information, and links to forms and processes will be emailed to instructors. Students and instructors are encouraged to work collaboratively throughout the semester to facilitate appropriate use of accommodations. DRC Contact Information: Email: [drc@scf.edu](mailto:drc@scf.edu)

Phone: 941-752-5295

## DRC Website:

[Disability Resource Center website](#)

## Copyright:

The unauthorized copying, sharing, or distribution of copyrighted material is prohibited. It is a violation of the Copyright Act, Academic Ethics, and the Code of Student Conduct. Students who violate copyright are subject to discipline.

## Standards of Conduct:

Students are expected to abide by all [SCF Student Handbook](#) guidelines.

## Technical Support

As part of being prepared for class, it is the student's responsibility to obtain and maintain access to Canvas and *MyLab Math*. Failure to do so will likely cause a student to miss assignments and receive zeros for those assignments. It is imperative that students plan ahead to complete their assignments before their due dates. If a student waits until the last minute to complete an assignment and a technical glitch occurs, the student may not have time to fix the glitch, assuming that the glitch is not the fault of Canvas or Pearson.

### Canvas

- Visit the [Canvas Student Guide](#) to answer your "How do I ..." questions.
- Call the SCF Help Desk to report availability issues with Canvas at (941) 752 – 5357.

### Pearson – MyLab/MyLab Math

- Use the directions provided in the "Start Here" Module in Canvas to register for *MyLab Math*.
- Most technical glitches can be fixed by
  - Trying again in ten minutes to an hour
  - Changing internet browsers (Google Chrome, Firefox, for example)
  - Enabling or allowing for pop-ups
- Check the [system status](#) to determine if *MyLab Math* is down nationwide. (Please send your instructor an email if this is the case)
- Contact [Pearson IT Support](#) to start a Chat or phone call. Obtain a call reference number. If the glitch is Pearson's fault, then notify your instructor immediately with the reference number.

## Department Chair/Assistant Dean Information

If a student encounters a problem in the course, they should work with the professor to resolve it. If the student needs help and the professor is unable to help or is unavailable, contact Stephanie Cook at [cooks@scf.edu](mailto:cooks@scf.edu).

## COVID19

Like all institutions of higher education, SCF has been impacted by COVID-19. In response, SCF considers the current recommendations of the Centers for Disease Control (CDC), Department of Health (DOH), Florida Department of Education (FLDOE), Florida College System (FCS), local and state officials. The latest SCF plan and protocols can be found linked from the College's Coronavirus website listed below. The website includes useful information for students regarding precautions, operations, monitoring, and instruction.

<https://www.scf.edu/Administration/PublicSafety/Coronavirus.asp>

## Recording

Students may, without prior notice, record video or audio of a class lecture for a class in which the student is enrolled for their own personal educational use. A class lecture is defined as a formal or methodical oral presentation as part of a college course intended to present information or teach enrolled students about a particular subject. Recording class activities other than class lectures, including but not limited to lab sessions, student presentations (whether individually or part of a group), class discussion (except when incidental to and incorporated within a class lecture), clinical presentations such as patient history, academic exercises involving student participation, test or examination administrations, field trips, and private conversations between students in the class or between a student and the faculty member is prohibited. Recordings may not be used as a substitute for class participation and class attendance and may not be published or shared without the written consent of the faculty member. Failure to adhere to these requirements may constitute a violation of the student code of conduct.

## Statement of Nondiscrimination:

State College of Florida, Manatee-Sarasota does not discriminate on the basis of sex (including pregnancy), race, religion, age, national origin/ethnicity, color, marital status, disability, genetic information and sexual orientation in any of its educational programs, services or activities, including admission and employment. Direct inquiries regarding nondiscrimination policies to: Equity Officer, 941-752-5323, PO Box 1849, Bradenton, FL 34206.

## Withdrawal Policy

Students should consult the College Catalog for a complete listing of withdrawal policies.

A withdrawal is a change in the student's course schedule where one or more courses are withdrawn before the end of the term. Withdrawn courses appear on the student's transcript as a "W" and are classified as attempts. No refunds are permitted for withdrawn courses.

**Withdrawing from a course(s)** - Course withdrawal is defined as withdrawal from one or more classes for a term but not complete withdrawal from the college. **Failure to completely process a drop form or drop a class online may result in the student being assigned a grade of "F".**

### **Financial Aid Impact:**

Withdrawing from one or more courses during the semester, without complete withdrawal from the college, may have an impact on both the amount of aid received for the semester and a student's academic eligibility to continue receiving financial aid for future enrollment. Students should contact the Office of Financial Aid for further information regarding the impact of withdrawing from one or more courses.

### **Faculty Withdrawal:**

Before the course withdrawal deadline and upon approval of the Department Chair, Assistant Dean, or other appropriate academic administrator, a faculty member may withdraw a student when the student has stopped attending or engaging in the class for an extended period of time as defined in the course syllabus, and has not formally withdrawn from the course, resulting in their inability to successfully pass the class.

If a student's absences, tardiness, or misconduct is causing disruption, the faculty member may file a code of conduct violation with the Dean of Students. The Dean of Students will work with the faculty member and the appropriate academic administrator before determining if a withdraw is appropriate.

In the event of an approved faculty withdrawal, a grade of W will be recorded. The grade is recorded on the student's permanent academic record. Fees are applied for all courses accordingly and are counted as attempted courses.