

MAC1140 - Precalculus Algebra

Section 4760

Rishabh Sarma

Summer B 2022

E-mail : rishabh.sarma@ufl.edu
Office Hours : TBD
Office : LIT 403
Credit hours : 4

Web : <https://people.clas.ufl.edu/rishabh-sarma/>
Class Hours : MTWRF Period 4
Class Room : LIT 217

Required Materials

- The primary resource for course information and content will be Canvas. You can access Canvas by going to <https://ufl.instructure.com/> and then using your Gatorlink username and password to login.
- Our text book will be available to students **for free** from Openstax. It can be accessed at <https://openstax.org/details/books/prec calculus-2e>.
- You will need to create an account with the myOpenMath service at <https://www.myopenmath.com/>. Homework will be assigned and completed through this website. It isn't perfect, but it works reasonably well and has the advantage of being FREE to you as students.

Course content and character

Absolute value, laws of exponents, radicals, algebraic expressions, linear and quadratic equations with applications, polynomials and their operations, special products, factoring, rational expressions, roots and rational exponents, equations with radicals, fractions, or absolute values, linear and absolute value inequalities.

Rectangular coordinate system, circles, lines, linear and non-linear systems of equations, functions (graphing, transformation, domain, range, increasing, decreasing, one-to-one, odd, even, piecewise functions, polynomial functions), quadratic functions, rational functions and inequalities. Composite functions and inverses, exponential functions, logarithmic functions, properties of logarithms, exponential and logarithmic equations and applications and models.

Course Goals and Objectives

MAC1140 is a course primarily designed to help prepare students for Calculus in a broader sense. The goal of this course is to provide the mechanical and conceptual tools necessary to continue on to either Business Calculus (MAC2233) or Calculus 1 (MAC2311), except for trigonometry, which can be taken separately by taking the course Trigonometry (MAC1114). Alternatively one can take the accelerated combined Precalculus Algebra and Trigonometry class (MAC1147) instead of taking MAC1140 and MAC1114.

Course Structure

Class Sessions

The class will meet every weekday at Period 4 (12:30pm-1:45pm). The format will be a mixture of lecture, supervised work and group activities designed to improve learning outcomes. Attendance is expected.

Homework

There will be roughly 6 homework assignments to be completed over the course of the semester. Homework will be assigned and completed through the free website below. Details will be discussed further in class.

<https://www.myopenmath.com/>

Exams and Quizzes

There will be three exams and three quizzes on the TBD dates that will be given during class. You will have approximately 1 hour to complete exams and 15 minutes to complete quizzes.

Students with Disabilities should register with the Disability Resource Center (352-392-8565, <https://disability.ufl.edu/>) and provide appropriate documentation. Email me your accommodation letter, along with any additional information, and we will arrange an accommodation.

Lecture

In this course, lectures will be highly interactive. Students should be prepared to participate by answering questions, working with other students and furthering our learning objectives.

Final Exam and Class Project

The Final Exam will take place on the last day of class : Friday, 5 August. More details will be available closer to the date.

Grading Policy

The typical UF grading scale will be used.

Grade	Points	Grading scale
A	4	93-100
A-	3.67	90-92
B+	3.33	87-89
B	3.00	83-86
B-	2.67	80-82
C+	2.33	77-79
C	2.00	73-76
C-	1.67	70-72
D+	1.33	67-69
D	1.00	63-66
D-	0.67	60-62

However, I will reserve the right to curve the scale dependent on overall class scores at the end of the semester. Any curve will only ever make it easier to obtain a certain letter grade. The grade will count the assessments using the following proportions :

- 45% of your grade will be determined by 3 in-class midterm exams (15% each).
- 15% of your grade will be determined by the Final Exam.
- 15% of your grade will be determined by 3 in-class quizzes (5% each).
- 15% of your grade will be determined by homework.
- 10% of your grade will be determined by in-class participation.

Course Policies

Attendance Policy

Attendance is expected at all class sessions. Valid excuses for absence will be accepted before class. In extenuating circumstances, valid excuses with proof will be accepted after class. For every class missed the participation grade will be reduced.

Policies on Late Assignments

Unless there are exceptional and well-documented circumstances there will be no makeup exams/quizzes.

Academic Integrity and Honesty

UF students are bound by The Honor Pledge which states, "We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment." The **Honor Code** specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor or TAs in this class.

Accommodations for Disabilities

Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, <https://disability.ufl.edu/>) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester. Non-Discrimination Policy NC State University provides equality of opportunity in education and employment for all students and employees. Accordingly, NC State affirms its commitment to maintain a work environment for all employees and an academic environment for all students that is free from all forms of discrimination.

Policy on Discrimination

Discrimination based on race, color, religion, creed, sex, national origin, age, disability, veteran status, or sexual orientation is a violation of state and federal law and/or University of Florida policy and will not be tolerated. Harassment of any person (either in the form of quid pro quo or creation of a hostile environment) based on race, color, religion, creed, sex, national origin, age, disability, veteran status, or sexual orientation also is a violation of state and federal law and/or University of Florida policy and will not be tolerated. Retaliation against any person who complains about discrimination is also prohibited.

Additional Resources

In addition, there are several other free resources available to you:

- The Teaching Center Math Lab, located at SE Broward Hall, offers free informal tutoring. You may want to attend different hours to find the tutors with whom you feel most comfortable. Also the Little 215 Tutoring Center provides free tutoring for courses up to Calculus 1. Go to <https://www.teachingcenter.ufl.edu> to find their hours. You can also request free one-on-one tutoring.
- A list of qualified tutors for hire is available at <https://www.math.ufl.edu><https://www.math.ufl.edu>.
- Other resources are available at <https://www.distance.ufl.edu/getting-help> for
 - Counseling and Wellness resources
 - Disability resources
 - Resources for handling student concerns and complaints
 - Library Help Desk support