

## College Algebra

### MAC 1105

#### COURSE STRUCTURE

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MAC 1105 is comprised of a lecture component and a lab component.

Lecture meets MWF and is a time when new material will be presented. I will use the Lecture Outline as a guide, and we will work through the examples provided in it. In addition to traditional style lecturing, we will also have class activities on certain days. You may work in pairs or small groups, collaborating on the class activities. The goal of the class activities is to get you practicing right away and to communicate with your peers about what you are learning and the processes behind differing types of examples. Communicating with peers helps you in the learning process, so it would benefit for you to get to know your peers in class and work together outside of class as well.

Lab (on Tuesdays) will start on Tuesday. You must attend the lab time you are registered for on your schedule. You may not attend a different lab time, not even on a one-time basis. Lab consists of either quiz days or test days. On quiz days, students will have 25 minutes of practice time before starting the lab quiz. Quizzes will not be given early, and students must be present from the beginning of lab to take the quiz. On test days, students will be getting the entire lab time to take the test, hence there will not be any practice time. For both quizzes and tests, students will immediately see their score after submission. However, the “report” which shows them what they got correct and incorrect will not be available until the next day. Teaching Assistants (TAs) run the labs and will help answer questions during practice time and proctor the quizzes and tests. TAs cannot provide individual instruction for students who have missed lecture. Lab classes are never rescheduled. This means that if you miss your lab time, you have missed either the quiz or test for that day. See the section on Measuring Progress to read about the makeup policies for missed quizzes and tests.

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## GOALS FOR STUDENT LEARNING

Here are the mathematical topics you're going to learn throughout the semester in MAC 1105:

- Multiply and factor polynomials, perform basic mathematical operations with rational expressions and radicals.
- Solve linear equations, quadratic equations, radical equations, and linear inequalities.
- Compute distances and midpoints, determine intercepts and symmetry, write equation of lines and equations of circles.
- Use function notation, determine the domain of functions, form the sum/difference/product/quotient of functions, determine information from graphs and functions, evaluate and graph piecewise-defined functions, perform transformations and reflections of functions.
- Determine properties of quadratic functions, apply linear and quadratic functions to real-world situations.
- Solve polynomial and rational inequalities.
- Compose functions, form inverse functions, apply properties of exponential and logarithmic functions and graphs to solve exponential and logarithmic equations, perform transformations and reflections of exponential and logarithmic functions.
- Solve systems of linear equations and solve systems of linear inequalities.
- Select & apply appropriate methods (i.e., mathematical, statistical, logical, &/or computational models or principles) to solve real-world problems.
- Use a variety of forms to represent problems & their solutions.

### Grading Calculation

Final course grades will be calculated using the following weighted grading formula.

Category	Weight
Homework (Objectives)	10%
Lab Quizzes	12%
Attendance	2%
Class Activities	2%
Test 1	18%
Test 2	18%
Test 3	18%
Final Exam	20%

## **LIBERAL STUDIES STATEMENT**

This course has been approved to meet FSU's Liberal Studies Quantitative and Logical Thinking requirements and helps you become a critical analyst of quantitative and logical claims.

In order to fulfill the State of Florida's College mathematics and computation requirement the student must earn a "C-" or better in the course.

By the end of the course, students will demonstrate the ability to:

1. Select and apply appropriate methods (i.e., mathematical, statistical, logical, and/or computational models or principles) to solve real-world problems.
2. Use a variety of forms to represent problems and their solutions.

## **UNIVERSITY ATTENDANCE POLICY**

Excused absences include documented illness, deaths in the family and other documented crises, call to active military duty or jury duty, religious holy days, and official University activities. These absences will be accommodated in a way that does not arbitrarily penalize students who have a valid excuse. Consideration will also be given to students whose dependent children experience serious illness.

## **ACADEMIC HONOR POLICY**

The Florida State University Academic Honor Policy outlines the University's expectations for the integrity of students' academic work, the procedures for resolving alleged violations of those expectations, and the rights and responsibilities of students and faculty members throughout the

process. Students are responsible for reading the Academic Honor Policy and for living up to their pledge to "...be honest and truthful and... [to] strive for personal and institutional integrity at Florida State University." (Florida State University Academic Honor Policy, found at <http://fda.fsu.edu/Academics/Academic-Honor-Policy>)

## **AMERICANS WITH DISABILITIES ACT**

Florida State University (FSU) values diversity and inclusion; we are committed to a climate of mutual respect and full participation. Our goal is to create learning environments that are usable, equitable, inclusive, and welcoming. FSU is committed to providing reasonable accommodations for all persons with disabilities in a manner that is consistent with academic standards of the course while empowering the student to meet integral requirements of the course.

To receive academic accommodations, a student:

- (1) must register with and provide documentation to the Office of Accessibility Services (OAS);
- (2) must provide a letter from OAS to the instructor indicating the need for accommodation and

what type; and, (3) should communicate with the instructor, as needed, to discuss recommended accommodations. A request for a meeting may be initiated by the student or the instructor.

Please note that instructors are not allowed to provide classroom accommodations to a student until appropriate verification from the Office of Accessibility Services has been provided.

This syllabus and other class materials are available in alternative format upon request.

For more information about services available to FSU students with disabilities, contact the

Office of Accessibility Services 874 Traditions Way 108 Student Services Building Florida State University Tallahassee, FL 32306-4167 (850) 644-9566 (voice) (850) 644-8504 (TDD)  
oas@fsu.edu <https://dsst.fsu.edu/oas>

## **ACADEMIC SUCCESS**

Your academic success is a top priority for Florida State University. University resources to help you succeed include tutoring centers, computer labs, counseling and health services, and services for designated groups, such as veterans and students with disabilities. The following information is not exhaustive, so please check with your advisor or the Dean of Students office to learn more.

## **CONFIDENTIAL CAMPUS RESOURCES**

Various centers and programs are available to assist students with navigating stressors that might impact academic success. These include the following:

Victim Advocate Program  
University Center A, Rm. 4100  
(850) 644-7161  
Available 24/7/365  
Office Hours: M-F 8-5  
<https://dsst.fsu.edu/vap>

Counseling and Psychological Services  
Askew Student Life Center, 2nd floor  
942 Learning Way  
(850) 644-8255  
<https://counseling.fsu.edu/>

University Health Services  
Health and Wellness Center  
(850) 644-6230  
<https://uhs.fsu.edu/>