



NORTHWEST FLORIDA STATE COLLEGE

MAC 1105 Course Syllabus

Course Name: College Algebra

Course Number: MAC 1105

Section (CRN): 10378

Credit Hours: 3

Instructor Name: Mr. Bellen

Instructor Office Location: Niceville Campus

Instructor Email: bellena@nwfsc.edu

Course Curriculum

In this course, students will develop problem solving skills, critical thinking, computational proficiency, and contextual fluency through the study of equations, functions, and their graphs. Emphasis will be placed on quadratic, exponential, and logarithmic functions. Topics will include solving equations and inequalities, definition and properties of a function, domain and range, transformations of graphs, operations on functions, composite and inverse functions, basic polynomial and rational functions, exponential and logarithmic functions, and applications. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet requirements for general education. Students cannot obtain credit for both MAC1105 and MAC1105C.

Goals

The goal of this course is to give the student (1) a thorough background in algebra as a basis for the pre-calculus, trigonometry, calculus sequence and (2) algebra skills and concepts useful in any future mathematics course work. It is expected that the student will be able to understand the concepts of algebra as well as work a range of problems, from basic problems up to the more difficult application and conceptual problems.

Objectives

Student Learning Outcomes:

- *Students will solve an equation or an inequality using an appropriate technique.*
- *Students will define and describe functions, their properties, and graphs.*
- *Students will manipulate functions to simplify expressions and find new functions.*
- *Students will use transformations to write an equation for a function and to graph a function.*
- *Students will model and solve real world problems using functions.*
- *Students will demonstrate technology literacy by using a calculator to graph and analyze functions.*

Expectations of the Instructor and Course

- a. Office Hours: Adjunct instructors do not have offices on the campus. You can email me at bellena@nwfsc.edu. I can use time pre or post class to address questions/problems which cannot be covered in class.
- b. Email response time of the instructor: You can anticipate responses to inquiries and questions within 24-48 hours of receipt except on weekends and holidays. I generally reply to emails Monday – Thursday from 8:00 a.m. to 4:00 p.m.
- c. Learning Management System Usage Notification: Canvas Resources. are available for students to learn more about using the Canvas learning management system we are using for this course. Since all assignments are submitted through Canvas and/or ALEKS (unless otherwise noted), access to a computer is required for this course. Students have free access to computers at all campuses. Canvas lists minimum computer specifications and supported browsers to ensure compatibility. The Chrome browser is recommended.
- d. ALEKS: Engages students with online tools used for formative assessments.

Expectations of the Student

- a. **ACADEMIC INTEGRITY:** Active and honest engagement in academic pursuits contributes to an environment conducive to optimal learning, aligning with the college's mission. Conversely, academic misconduct, such as cheating or plagiarism, undermines the integrity of the educational atmosphere and will not be tolerated. "Cheating" encompasses any unauthorized aid in completing coursework. Depending on the severity and frequency of such misconduct, sanctions may range from receiving a failing grade or zero on a test, assignment, or activity to course failure, or even suspension or dismissal from the program or college.
- b. **Attendance Policy:** Regular attendance and participation are significant factors that help to promote success in college. Students are expected to attend ALL class meetings of all courses for which they are registered.

Students who stop attending class or are not able to pass the course due to attendance expectations stated in the syllabus may receive a failing grade. This may impact the receipt of federal aid in subsequent courses. Students traveling for college approved activities will not be penalized academically but will be responsible for missed work.

If you miss a class, it your responsibility to find out what work you missed. You are responsible for that material.

How Student Performance Will be Measured

This course uses various summative assessments to measure student performance toward the student learning outcomes listed above. Grading Scale: A (100-90), B (89-80), C (79-70), D (69-60), and F (59-0).

A breakdown of the final grade is shown below.

Grading Procedures

Homework	Due within one week of assignment	20%
Tests	In class tests: Test-1 (chap. 1) Test-2 (chap. 2) Test-3 (chap. 3 & 4) Test-4 (chap. 5 & 6)	60%
Final Exam	In class final exam	20%

In class test dates will be announced in advance. All in class tests/exams will be graded and returned as quickly as possible.

Grading Scale: A 90 – 100%, B 80 -89%, C 70 – 79%, D 60 - 69%, F less than 60%.

Incomplete Grades

At the discretion of the instructor, an incomplete grade (“I”) may be awarded when the student is unable to finish the required work because of unforeseen extenuating circumstances such as illness or TDY assignment. To receive an “I” grade, the student must have successfully completed a significant portion of the required coursework and be able to finish the remaining work without attending class. An “I” grade will automatically convert to a grade of “F” if the student does not complete the remainder of the coursework by the established deadline.

Make-up Work

No make-up exams will be given except in special cases where advance notice is given and appropriate documentation is submitted. Make-up tests will be given solely at instructor’s discretion. You cannot take more than one make-up test. A make-up test should be taken within one week of scheduled test date.

If you miss a class, it is your responsibility to find out what work you missed. You are responsible for that material.

Assignments

Homework assignments are due within one week of being assigned for credit. Late assignments will receive zero points.