



Pensacola State College District Syllabus
MAC 1105_D9207
College Algebra

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Semester Hours: 3 credit hours

Prerequisites : Appropriate placement score or completion of MAT 1033 with a grade of C or better.

Course Description : 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.

Semester Offered : Fall, Spring, Summer.

Course Designations: Meets AA General Education Core, Mathematics requirement.

General Education Core Course Standard: Per Florida Statute 1007.25, "Mathematics courses must afford students a mastery of foundational mathematical and computation models and methods by applying such models and methods in problem solving."

Textbooks:

College Algebra (ALEKS 360 for College Algebra) Access Code; Miller and Gerken;
9781266688515; 3rd; McGraw-Hill; 2023

College Algebra (ALEKS 360 for College Algebra) Access Code; Miller and Gerken;
9781266692246; 3rd; McGraw-Hill; 2023

Supplement Materials: Scientific calculator permitted; no graphing calculators allowed.

Special Requirements:

There is a \$24.99 Lab Fee for Distance Learning courses and NO Lab Fee for Hybrid courses. Distance Learning and Hybrid Sections require an ALEKS access code. Use of ALEKS in face-to-face sections is at the discretion of the instructor. Contact your instructor to determine if ALEKS is required. For sections NOT requiring ALEKS the textbook listed is required.

Course Learning Outcomes:

1. Solve linear, quadratic, rational, absolute value, and radical equations and inequalities, algebraically and graphically.
2. Use exponential and logarithmic properties to analyze functions and solve equations.
3. Analyze relations and functions.
4. Sketch and interpret graphs of linear, quadratic, rational, absolute value, radical, exponential and logarithmic functions.
5. Solve systems of equations and inequalities.
6. Setup and solve application problems related to the above concepts.

Methods of Evaluation

Grade Calculation		Grade Scale		
1. Homework	20%	90-100 A	78-79 C+	60-67 D
2. Quizzes	20%	88-89 B+	70-77 C	0-59 F
3. Average of 3 Unit Tests	30%	80-87 B	68-69 D+	
4. Cumulative Final Exam	30%			

1. The Average of Homework Assignments – 20%

- a) ALEKS Homework Assignments: To receive full credit for assignments, work must be completed by the due date. Any homework problems submitted after the due date will receive 50% credit. Three attempts are allowed for most ALEKS homework questions before marked incorrect, and there are unlimited retakes. Assignments are set to *quick retake*, so only questions marked wrong need to be reworked to improve your score.
- b) EXTRA CREDIT OPPORTUNITY: There will be four scheduled discussion posts, giving students an opportunity to interact with other classmates, ask questions, and discuss the material.

2. The Average of Quizzes – 20%

There will be scheduled Quizzes in ALEKS. Students are allowed to use their notes and will get two attempts on each quiz (the higher score counts). Any ALEKS quiz not submitted by the due date will receive a grade of zero. The lowest quiz grade will be dropped in the final grade calculation. Unit Practice Tests and a Final Exam Practice Test will also count as quiz grades.

3. The Average of Three Unit Tests – 30%

There will be three online tests: Unit 1, Unit 2, and Unit 3. These tests must be proctored either remotely using the Proctorio extension download, or in person at any PSC Test Center. A unit practice test is available to complete for extra credit.

4. Cumulative Final Exam – 30%

The final exam will consist of material from **Unit 1, Unit 2, Unit 3, and Unit 4** and proctored using Proctorio or at a PSC Test Center. A review assignment will be provided.

General Education Student Learning Outcomes:

Critical Thinking: The student analyzes, evaluates, and, if necessary, challenges the validity of ideas, principles, or data in order to develop informed opinions, probable predictions, or defensible conclusions.

Scientific and Mathematical Literacy: The student properly identifies and applies scientific or mathematical principles and methods.

Information Literacy: The student effectively locates, evaluates, and applies information from a variety of sources.

Academic Dishonesty Statement	Pensacola State College is committed to upholding the highest standards of academic conduct. All forms of academic dishonesty, to include plagiarism and cheating, are prohibited. Penalties for academic dishonesty include but are not limited to one or more of the following: the awarding of no credit on the assignment, a reduction in the course grade, or the assignment of a final course grade of F and removal from the course. See the College Catalog for more details: Academic Integrity
ADA Statement	Students with a disability that falls under the Americans with Disability Act Amendments Act of 2008 or Section 504 of the Rehabilitation Act should contact the Student Resource Center for ADA Services to discuss academic accommodations. Appropriate academic accommodations are determined on an individual basis with careful consideration of the course learning outcomes and the documentation of the disability. For more information, students should visit the Student Resource Center for ADA Services on the Pensacola campus in building 6, room 603; call 850-484-1637; email ADAservices@pensacolastate.edu ; or complete the online intake form in the ADA Services app within the MyPSC apps dashboard.
AI Statement for Writing Emphasis Courses	Because writing emphasis courses focus on the foundational skills of critical thinking, rhetorical awareness, and information literacy, the work presented by students must be original. As such, the use of generative AI for graded assignments is prohibited unless specifically authorized by the instructor. The instructor reserves the right to assign a failing grade to an assignment determined to exhibit markers of generative AI use. In such instances, the student may challenge the failing grade and is responsible for demonstrating the originality of a submitted text. Continued registration in the course will be understood as acceptance of this policy.
Emergency Statement	In the case of severe weather or other emergency, the College administration maintains communication with appropriate state and local agencies and makes a determination regarding the cancellation of classes. Notices of cancellation will be made through the College's PSC Alert system and on the College's website.
Flexibility Statement	It is the intention of the instructor to accomplish the objectives specified in the course syllabus. However, circumstances may arise which prohibit the fulfilling of this endeavor. Therefore, this syllabus is subject to change. When possible, students will be notified of any change in advance of its occurrence.

Nondiscrimination Statement	Pensacola State College does not discriminate against any person on the basis of race, color, ethnicity, religion, sex (as defined by applicable federal and state law), national origin, age, disability, genetic information, pregnancy, or marital status in its educational programs, activities, or employment. For inquiries regarding the College's nondiscrimination policies, contact the Civil Rights Compliance Officer at (850) 484-1759, Pensacola State College, 1000 College Blvd., Pensacola, Florida 32504.
Security Statement	Pensacola State College is committed to encouraging all members of the College community to be proactive in personal safety measures. In case of emergency, students should ensure that they are aware of the building exit closest to each of their classrooms, as well as all alternative building exits in case circumstances require using a different route.
Student Email Statement	Pensacola State College provides an institutional email account to all students enrolled in courses for credit. PirateMail is the official method of communication, and students must use PirateMail when communicating with the College. In cases where companion software is used for a particular class, email may be exchanged between instructor and student using the companion software.