

MATH 111 – COLLEGE ALGEBRA – SYLLABUS

Campbell University – Camp Lejeune, NC
SPRING I Term 2012

Instructor: Dr. Mary G. Felker
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Credit Hours: 3

Dates: Jan. 10 – Mar. 1, 2012
Days: Tuesdays & Thursdays
Time: 7:50 – 10:15pm
Location: Education Center, room 402

Campbell University's Mission Statement: *The mission of Campbell University is to graduate students with exemplary academic and professional skills who are prepared for purposeful lives and meaningful service. The University is informed and inspired by its Baptist heritage and three basic theological and biblical presuppositions: learning is appointed and conserved by God as essential to the fulfillment of human destiny; in Christ all things consist and find ultimate unity; and the Kingdom of God in this world is rooted and grounded in Christian community. The University embraces the conviction that there is no conflict between the life of faith and the life of inquiry.*

This course is consistent with the aforementioned mission and provides students a positive environment for learning.

Course Purpose: Transfer from one generation to the next the vast body of knowledge in values accumulated of the ages; encourage creativity, imagination, and rigor in the use of intellectual skills; equip students with superior vocational skills, productive insights, and professional integrity.

Course Description: A basic study of logic, structure, and foundations of algebra. Major topics include functions, inequalities, equations, roots, radicals, and exponents.

Required Text: *Algebra for College Students*, 9th edition, by Jerome E. Kaufmann and Karen L. Schwitters, Brooks/Cole, Cengage Learning, 2011. ISBN: 978-0-538-73354-0

Additional Suggested Materials: graphing calculator (will discuss at first class meeting)

Course Learning Outcomes: Students completing MATH 111 with a passing grade will be able to:

- Solve linear equations and inequalities.
- Solve applied problems involving linear equations and inequalities.
- Solve equations and inequalities involving absolute value.
- Factor and perform arithmetic operations with polynomials.
- Perform operations with rational expressions.
- Use properties of exponents.
- Perform operations involving radicals.
- Solve radical equations.
- Perform operations with complex numbers.
- Solve quadratic equations.
- Find the distance between two distinct points.
- Calculate and interpret the slope and y-intercept of a line.
- Write the equation of a line in slope-intercept and standard form.
- Use a graphing calculator to graph linear functions.
- Solve systems of linear equations in two variables

General Education Learning Outcomes Addressed in This Course:

- Students will be able to read with understanding, so as to be able to apply discipline methodologies and theories in the areas of Fine Arts, Humanities, Mathematics, and the Sciences (I.3)
- Students will be able to comprehend conclusions based on numerical and graphed data. (I.4.2)
- Students will be able to interpret and apply mathematical formulas. (I.4.3)
- Students will be able to multiply, divide, add, subtract, and operate with fractions, decimals, and proportions. (II.1.1)
- Students will be able to solve real world problems based on these primary skills. (II.1.2)
- Students will be able to use formulas and equations to create graphs and derive information. (II.2.1)
- Students will be able to use appropriate mathematical terms and symbols. (II.2.2)
- Students will be able to apply their mathematical skills to understand scientific results of experimentation. (II.3.2)
- Students will be able to use a variety of discipline-specific methods to recognize the existence of a problem. (III.1.1)
- Students will be able to use the proper methodologies to form questions about a problem at hand, and the implications of the question. (III.1.2)

- Through asking the right questions, students will be able to eliminate false assessments and solutions. (III.3.1)
- Students will be able to recognize a true solution and articulate the reasons for making that recognition. (III.3.2)
- Students will learn a variety of non-verbal means of communication, such as spatial, graphic, mathematical, theatrical, aural, and visual. (IV.3.1)

Integrity and Class Conduct: Students should bring their textbook, calculator, pencils and notebook to each class. Assignments should be completed before class. Be prepared to ask questions about assigned work and participate in discussions. Attendance and withdrawal policies are followed as outlined in Campbell University’s student policy handbook. *All students are subject to the academic integrity and behavioral expectations of Campbell University.*

Grading Criteria: Submission of all graded items is required to pass this College Algebra course.

- Tests (4)	100 pts each----	400 pts
- Quizzes (2)	50 pts each----	100 pts
- Graded Assignments (5)	50 pts each----	250 pts
- Class Participation	50 pts total----	50 pts
- Final Exam	200 pts total----	200 pts

Total points possible----1000 points

Students should keep a 3-ring notebook binder (one-inch) with class notes and assigned problems. Designated assignments will be collected and graded; other assignments will be discussed in class as needed. Late assignments will not be accepted for full credit; assignments will be assessed a 10-point deduction for each class period late (special circumstances will be considered on a case-by-case basis). In addition, there will be two quizzes, four tests and a comprehensive final exam. If you must miss a test, please notify the instructor before the test date. Make-up tests will not be provided without prior instructor approval of the absence. The make-up tests provided may not be the same as the original test. Your final average will be the total points earned divided by 10.

Grading Policy: Official grades are issued for each student at the end of each term. Students will be graded by the letter grade system shown below.

Letter Grade	Final Average	
A	90 – 100	Excellent
B	80 – 89	Good
C	70 – 79	Average
D	60 – 69	Below Average
F	Below 60	Unsatisfactory

Course Attendance Policy: The University attendance policy states that a student must attend 85% of class meetings in order to receive credit for a course. Absences (excused or unexcused) should not exceed 15% of class meetings in this course. Students who are aware that they will miss a class should inform the instructor **before class by phone or email message.**

Internet/Email Requirements: **Students are expected to regularly monitor their Campbell email account.** Important information or instructions may be emailed to these accounts. In addition, **students need to refer to Blackboard for the course syllabus, assignment sheet, and other posted information during the course.**

Students with Disabilities: Students with documented disabilities who desire modifications or accommodations should contact the Director of the Camp Lejeune Extended Campus. Coordination will be initiated with the Office of Student Success.

Inclement Weather Policy: Campbell University maintains an inclement weather policy to address adverse weather conditions. The policy is stated in the Student Handbook. Radio, television, the Campbell Camp Lejeune Extended Campus webpage, and telephone message at the Camp Lejeune office of Campbell University are used to relay information concerning cancellation of classes due to inclement weather. Also, when Camp Lejeune is closed, CU classes are not conducted. Students should go to the Camp Lejeune Base website for updates on Base closings or telephone the Camp Lejeune base information number for information.

Campbell Camp Lejeune Extended Campus Webpage: www.campbellcamplejeune.com