

College Algebra MAC 1105 Flipped Classroom Fall 2012

Instructor Information:

Name: Professor Justus Frazier
 Phone: 407-582-1662
 Office: Building 5-121
 E-mail: Log into Valencia's Blackboard
 To Chat Live during office hours go to: **skype: senseifrazier**

Grading Scale:

90% - 100%	A
80% - 89%	B
70% - 79%	C
60% - 69%	D
Below 60%	F

Office Hours:	Monday Wednesday	10:00 AM to 11:00 PM
Office Hours:	Monday Wednesday	2:30 PM to 4:00 PM
Office Hours:	Tuesday Thursday	1:00 PM to 3:00 PM

Traditional Option

For students who prefer self-directed learning styles, can learn best from the text and independent study and want to move ahead of the class.

Go to: Valencia Bookstore
 College Algebra 7th edition

60% - 6 Tests (Each 10%)
20% - Text examples = 2 tests
20% - Final exam = 2 tests

Portfolio Option

For students who prefer interactive-learning, enjoy organizing activities, and developing a portfolio based on their classwork.

Go to: [Kendall Hunt](#)
 A Portfolio for College Algebra

60% - 6 Tests (Each 10%)
20% - Portfolio = 2 tests
20% - Final exam = 2 tests

	Traditional	Portfolio
College Algebra Textbook	●	
College Algebra Portfolio		●
Submit examples from text	●	
Submit lesson outline		●
All tests can be taken before test dates	●	
Submit test corrections		●

Tests - Graphing calculators are required unless otherwise instructed. Calculators cannot be shared during examinations. If you are absent for any reason, tests will be replaced by the final exam grade. All tests are retained for determining final grade. **No grades are "dropped"**.

In class assignments

KAD's	Daily attendance records and tracking progress	
On-line outline	Portfolio Option Only	Due on test day 25 Points
Test Corrections	Portfolio Option Only	Due after testing 25 Points

5 points are reduced for each missing or incomplete section which can be made up in class.

Final Exam - Final exams follow the Valencia Community College's exam schedule. The final is taken in the classroom, unless there is an announcement from class otherwise.

College Algebra Topics

	Traditional option Textbook assignment examples in sections:
Topic 1.1 - Properties of Exponentials and Roots	R.8 Examples
Topic 1.2 – Operations with Roots	R.8, 1.3
Topic 1.3 – Binomial Expansion	R.4
Topic 1.4 - Factoring Polynomials: GCF's LCD's & Binomials	R.5
Topic 1.5 - Factoring Polynomials: Trinomials & Multiple factors	R.5
Topic 1.6 - Scientific Notation & Variation Equations	R.2, 2.5
Topic 2.1 - Simplifying Rational Expressions	R.7
Topic 2.2 - Solving Equations by Isolation Methods	1.1
Topic 2.3 - Solving Quadratic Equations by Factoring and Formula	1.2
Topic 2.4 - Solving Quadratic Equations by Completing the Square & Quadratic Forms	1.2
Topic 2.5 - Solving Linear & Absolute Value Inequalities	1.5
Topic 2.6 - Solving Quadratic & Rational Inequalities	4.5, 5.4
Topic 3.1 - Graphing Linear Equations	2.3
Topic 3.2 - Parallel, Perpendicular and Piecewise Lines	2.3
Topic 3.3 - Introduction to Relations, Functions & Composite Functions	3.1, 3.2, 6.1
Topic 3.4 - Properties of Relations & Functions	3.3
Topic 3.5 – Graphing Basic and Piecewise Functions	3.4
Topic 3.6 – Graphing Functions using Transformation Methods	3.5
Topic 4.1 - Division of Polynomial Functions	R.6, 5.5
Topic 4.2 - Solving Polynomial Equations	5.5
Topic 4.3 - Graphing Quadratic Functions	4.3
Topic 4.4 - Graphing Polynomial Functions	5.1
Topic 4.5 - Graphing Rational Functions	5.2
Topic 5.1 - Inverse Functions	6.2
Topic 5.2 - Exponential Functions	6.3
Topic 5.3 - Logarithmic Functions	6.4
Topic 5.4 - Solving Exponential & Logarithmic Equations	6.5, 6.6
Topic 5.5 – Application of Exponential and Logarithmic Functions	6.7
Topic 6.1 – Solving Linear Systems	8.1
Topic 6.2 – Solving Non-linear Systems	8.6
Topic 6.3 - Solving Systems of Inequalities	8.7
Topic 6.4 - Application of Systems	8.1
Topic 6.5 - Application of Various Topics	X.X