MATH 106
ALGEBRA AND ELEMENTARY FUNCTIONS

Instructor: Sam Riley

Class Time: Mon/Wed 9:00 – 12:10pm

Class Room: MP 101

Text: Aleks, a web-program, your course code can be found on Blackboard

Office: AC IV, B-wing, Room 349

Mailbox: ACIV B-wing Room 345 (front counter) or Math/Psych 410 (front counter)

Office Hours: I'm here full-time so just make an appointment.

Contact Info: sriley4@umbc.edu

Topics Include:
1 – Systems of Linear Equations
2 – Exponents and Polynomials
3 – Factoring
4 – Rational Expressions and Equations
5 – Rational Exponents and Radicals
6 – Quadratic Equations and Functions
7 – Logarithmic and Exponential Functions
8 – Graphing and Functions

Grading: Your final grade for the course will be computed at follows:
Aleks, completing the Pie chart will account for 10% of your grade.
Assignments on Blackboard account for 7% of your grade
6 Quizzes account for 16% of the grade
Tests 1, on topics 1 through 3, accounts for 13% of the grade
Test 2, on topics 4 & 5, and Test 3, on topics 6 & 7, account for 17% of the grade each
The Final accounts for 20% of the grade

For Y-Section ONLY: If pass the Math 106 portion of the Class then the Y-section accounts for 15% of the grade

Aleks: Aleks is your text and practice material in this class. Please try to keep up with the course calendar as much as possible, we will have some days where we can work on it in class. In the end, the proportion of the chart completed will count for 10% of your grade.

Assignments: Assignments will be due where noted on on Blackboard. There will be 8 assignments, but I will drop the lowest grade and their average will count for 7% of your grade.

Quizzes: Quizzes will be on Aleks and will be due where noted on Blackboard. You will have two attempts to complete each quiz and I will take the highest score. There will be 8 quizzes, but I will drop the lowest two grades and their average will count for 16% of your grade.

Exams: There will be three exams given during the semester as indicated in the approximate schedule. Make up exams will only be given to students with prior approval.

Final Exam: The final exam will cover Topics 4 through 8 and will be the last day of class .

NO CALCULATORS OF ANY KIND ARE ALLOWED IN THIS COURSE.

Math Lab is open Tu/W/Th, 12pm-5pm, behind the reference desk, on the first floor of the library

There is also a study hall 6:30 to 8:30pm on Mondays and Thursdays on the second floor of the library with the SI Leader present.

There is also SI, supplemental instruction, with Lillian Stubblefield 2:30 to 3:30pm on Mondays and Wednesdays.

THERE IS A LOT OF HELP FOR THIS CLASS DURING THE SUMMER! PLEASE TAKE ADVANTAGE OF IT!!!

Academic Integrity: By enrolling in this course, each student assumes the responsibilities of an active participant in UMBC's scholarly community in which everyone's academic work and behavior are held to the highest standards of honesty. Cheating, fabrication, plagiarism, and helping others to commit these acts are all forms of academic dishonesty, and they are wrong. Academic misconduct could result in disciplinary action that may include, but is not limited to, suspension or dismissal. To read the full Student Academic Conduct Policy, consult the UMBC Student Handbook, the Faculty Handbook, or the UMBC Policies section of the UMBC Directory.

Schedule of Classes

The schedule is apt to change depending on the flow of the class

Monday 7/6 Systems of Equations, including Word Problems	**Wednesday 7/8** Polynomials and Rules of Exponents, Assignment 1 due.
Monday 7/13 Factoring, Assignment 2 due.	**Wednesday 7/15** Simplifying, Adding, Subtracting Rational Expressions, and Complex Fractions. Assignment 3 due.
Monday 7/20 Test 1, Solving Rational Equations.	**Wednesday 7/22** Simplifying Radicals, Operations with Radicals, Assignment 4 due
Monday 7/27 Solving Radical Equations, Completing the Square, Quadratic Formula.	**Wednesday 7/29** Test 2, Higher Degree Equations, Parabolas. Assignment 5 due.
Monday 8/3 Exponential and Logarithmic Functions and Equations, Graphing Exponential. Assignment 6 due.	**Wednesday 8/5** Test 3, Assignment 7 due Translations of Functions.
Monday 8/10 Operations with Functions, Inverses, Review for Final.	**Wednesday 8/12** Assignment 8 due, Final.