CLASS SYLLABUS Fall 2008

Course: Math 245 College Algebra  
Section 3297 MW 7-8:25pm, Room: BUNG-8

Instructor: Armond Bakijanian  
Office Hours: MW 3:30-4:20pm; TTh 2:20-4:20pm  
Office: BUNG-D  
Email: bakijaa@lамission.edu


Calculator: Scientific Calculators are required. Graphing Calculator will not be allowed during examination.

Prerequisite: Math 125 or appropriate skill level demonstrated through the MATH assessment process.

Important Dates:  
September 26 Last day to drop without a “W”  
November 21 Last day to drop with a “W”

Course Description: The properties of real numbers, relations, functions and their graphs, matrices and determinants, complex numbers, theory of equations, permutations, combinations, and probability.

Learning Outcomes

1) Model and solve equations and inequalities, including quadratics and complex numbers.  
2) Perform operations with complex numbers including exponentiation.  
3) Perform operations with linear functions and quadratic functions, draw their graphs, and find their inverses.  
4) Model, solve and graph linear and non-linear systems of equations and inequalities  
5) Model and solve systems of equations and inequalities (two variables and more).  
6) Analyze and graph polynomial and rational functions  
7) Perform operations with polynomial functions.  
8) Perform operations with exponential and logarithmic functions.  
9) Model, solve, and graph exponential and logarithmic functions.  
10) Identify and manipulate sequences and series.  
11) Interpret summation notation and determine sums of sequences.  
12) Decompose algebraic fractions into partial fractions.  
13) Solve systems of equations using matrix theory.  
14) Evaluate determinants and utilize their properties.  
15) Analyze and graph conic sections: parabolas, ellipses, and hyperbolas.  
16) Prove mathematical statements by mathematical induction.
Homework will be assigned collected and a subset will be graded. These are due at the beginning of class on the day specified. No late homework will be accepted. Since the exams will closely resemble homework exercises, **success in this course strongly depends on diligently completing all assignments in a timely fashion**

Exams

There will be four classroom tests. The lowest score will be dropped. There will be no make-up examinations. Any missed exam will receive a grade of 0. The final exam is accumulative and is not optional but required. Everyone must take the final exam to pass. **No exceptions!**

**Grading:**

- Homework: 10%
- Tests (3): 60%
- Final: 30%

**Grading Scale:**

Letter grades will be determined by your overall percentage in the course:

- **A** = 88%-100%
- **B** = 78%-87%
- **C** = 65%-77%
- **D** = 55%-64%
- **F** = 0%-54%

**Attendance:**

Students are expected to attend all class meetings. Unexcused absences may result in excluding students from class. Students themselves are responsible for dropping a class they no longer attend; failure to do so may result in a grade of F.

**Class comportment:**

All students are expected to arrive on time. Late arrivals are disruptive to both the lecturer and students. Students must turn off cell phones while in class. Students are encouraged to ask questions and make comments on the lecture material. This should be done in a courteous manner by raising one’s hand and being recognized. Side conversations between students that disrupt the flow of the lecture will not be tolerated. It is the student’s responsibility to manage his or her academic workload. Should a student decide to stop attending class it is their responsibility to drop the class. All students appearing on the grade roster will receive a grade regardless of whether they are attending classes or not. Any cheating which includes any unauthorized cooperation on any graded assignment will be dealt with as severely as the College policy allows.