ADVANCED ALGEBRA & TRIGONOMETRY SYLLABUS  
Amy Malone

**Goal:** To foster creative thinking and help every student achieve his/her highest potential in mathematics

**Topics:**
- Equations, Inequalities, and Mathematical Modeling
- Functions and Their Graphs
- Polynomial Functions
- Rational Functions and Conics
- Exponential and Logarithmic Functions
- Trigonometry
- Systems of Equations and Inequalities
- Matrices and Determinants
- Sequences, Series, and Probability

**Materials:** (Bring to class every day)
- 3 ring binder (suggested sections - notes, homework, quizzes/tests)
- Pencil(s) with eraser
- Paper (regular notebook paper and graph paper)
- Calculator (TI-84 graphing calculator is recommended)

**Math Lab:** Tuesday and Thursday 12:05-12:30 in room 306, Friday 12:35-1:00 in room 304
- Lab is limited to 5 students each day.
- The purpose of math lab is not to complete today’s homework assignment. Math lab is for extra help when a student is absent or behind.

**Homework**
- Will be assigned daily, checked at the beginning of the next class, and may be taken up for a grade
- In order to receive full credit, students must complete all assigned problems with any processes shown clearly and completely.
- Work turned in late will lose 1 point for each day late.
- Students will be given one extra day to turn in work for each day the student is absent.

**Quizzes/Tests:**
- Will be given a full class period to complete (students will not be allowed more than 55 minutes to complete any test including makeups)
- Will always be given on Wednesday or Friday

**MAKEUP TESTS/QUIZZES**
- Must be taken in the testing lab on Monday, Wednesday, or Friday in room 305.
- Since students will be given a maximum of 55 minutes to complete a test, students should plan to report directly to the testing lab at 12:00 with their lunch. (Students may bring their lunch from home or purchase from the cafeteria.) Extended time will NOT be given, so plan accordingly.

**Final Grade:**
- **1st semester grade**
  - 1st quarter – 40%
  - 2nd quarter – 40%
  - Semester exam – 20%
- **2nd semester grade**
  - 1st quarter – 40%
  - 2nd quarter – 40%
  - Semester exam – 20%
- **Final Grade**
  - 1st semester – 50%
  - 2nd semester – 50%