Advanced Algebra 302 Syllabus

Text: <u>Advanced Algebra</u> by Scott Foresman Addison Wesley
Students will need daily access to a graphing calculator. The school uses Texas Instruments 83+ or 84.

Course Description:
Advanced Algebra 302 is a year-long math class that emphasizes contextual learning, graphing calculator manipulation, pure algebraic processes, and applications of algebra in real-life and workplace situations. Students will also be introduced to trigonometry and be introduced to concepts discussed in more detail in Pre-Calculus. This class prepares students for college level mathematics.

Instructional Philosophy:
Students will review and build a deeper understanding of algebraic and trigonometric concepts. Information will be presented in the form of lecture, projects, group and independent study (homework). Through these assignments and activities, students are expected to develop the ability to work cooperatively in groups as well as build their critical thinking and problem solving skills.

Major Units of Study:
- Function analysis
- Inverse/Direct variation
- Linear equations
- Systems of equations
- Quadratic equations
- Logarithms
- Inverse functions
- Triangle trigonometry
- Trigonometry on the Unit Circle
- Trig Functions

Assessment Plan:
A student's grade will be determined by the accumulation of points in two categories: Assessments and Assignments. Assessments (both major and minor) shall be worth 70% of the total grade. Major assessments will be in the form of Goal tests. Each Goal TEST may be retaken twice if the student does not earn a score of at least 70% the first time.

Assignments shall be worth 30% of the total grade. Students should expect daily assignments. Late work will not be accepted for full credit. Assessments will be given periodically to determine the student's level of understanding and mastery. All students will take a cumulative final at the end of the semester and year. Like all math classes at SWHS, the following grading scale will be used:

100% to 93% = A	89.9% to 87% = B+	79.9% to 77% = C+	69.9% to 67% = D+
92.9% to 90% = A-	86.9% to 83% = B	76.9% to 73% = C	66.9% to 60% = D
	82.9% to 80% = B-	72.9% to 70% = C-	59.9% & below = F

Basic Skills Test:
Students will also take a Basic Skills Test periodically throughout the year. This test assesses the students' knowledge of basic number operations as well as first year algebra concepts. Students must be able to pass this test (without a calculator) with at least an 80% by the end of the year in order to earn credit for this class.

Graphing Calculators: Students will be issued a graphing calculator to use as a tool for class. Students not returning calculators at the end of the course in working condition will be fined $110. Students returning a working calculator *after* the end of the course will be fined $25 for returning tools late. The math department needs materials returned in a timely manner so that they may check them out to next year's students.

Contact Information
Mr. Cornelius
Phone: 855-3510 ext. 3946
Email: wcornelius@swsd.k12.wa.us