Pre-Calculus Math 30S – Course Outline

Mathematical wisdoms…

"Mathematics is a game played according to certain simple rules with meaningless marks on paper."
- David Hilbert

"In mathematics, you don't understand things. You just get used to them."
- Johann von Neumann

Course Description

Pre-calculus Math 30S is a course designed to introduce students to more advanced theorems and mathematical ideas, as well as solving problems using mathematical modeling. This course will focus on developing critical thinking skills in students, through the analysis of mathematical formulae and theorems.

Technology is a large component in the course, and students will be required to solve problems and model mathematical concepts with graphing calculators, spreadsheets, and other computer-based software.

It is not required that all students come to class with a graphing calculator, although it would be quite beneficial for you. If you do not have your own, you can rent one at the office with a $75 insurance deposit.

Course Timeline
Unit 1: Algebra

Unit 2: Functions

Unit 3: Sequences

Unit 4: Absolute Value

Unit 5: Solving Equations

Unit 6: Trigonometry

Unit 7: Inequalities

Unit 8: Radicals

Assessment

Course Work   70%

Final Exam   30 %

Due to the difficulty of this course, daily homework will be assigned. While it may not appear as a specific section in the assessment, the work done outside of class is necessary for success in this course. It is your responsibility to learn the material, and my job to help guide you through the required course content.

There is no midterm exam in this course. All students will be required to write the final exam, which will cover material from the entire semester. While there are no provincial exams in grade 11, this final assessment should be treated as such. It will be an expectation of you to be able to self-assess your math skills accurately in order to properly prepare for a provincial exam.

There are no supplemental exams.
Late Assignments – all assignments are due by the date set. Failure to do so will require you to talk to me outside of class time. I will accept assignments for assessment up to the date in which I hand the assignment back. After this date the incomplete assignment will receive a grade of 0, but may still require completion to satisfy the course requirements.

Textbook

McAskill, B. et al. 2012. <u>Pre-Calculus 11</u>. McGraw-Hill Ryerson, Whitby, ON.

Keys to Success…

- Be prepared for class

- Complete all assignments and questions prior to the due date

- Study for tests and exams

- Come in for extra help when needed

- **Make Mistakes**. It helps you recognize when you're doing things right.