



Course Description/Rationale/Overview: This course extends students' experience with functions. Students will investigate the properties of polynomial, rational, logarithmic, and trigonometric functions as well as broaden their understanding of rates of change. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. This course is intended both for students taking the Calculus & Vectors course as a prerequisite and for those wishing to consolidate their understanding of mathematics before proceeding to any one of a variety of university programs.

Class Requirements:

Materials/textbooks/equipment

Texts:

- 1) Functions and Relations 11 (Addison-Wesley)
- 2) Advanced Functions and Introductory Calculus 12 (Harcourt)
- 3) Advanced Functions and Introductory Calculus 12 (Addison-Wesley)

Recommended: A scientific calculator, binder, paper, writing utensils and ruler are required daily.

Course Requirements/Department Policies

Students are to be present for test dates. There must be a verified, valid reason when a test is missed. The teacher may provide an alternative opportunity for testing or record an "absent" for that test.

All summative assignments will have a clear *Due Date*. Assignments that are handed after the *Due Date* will be accepted and assessed by the teacher if submitted prior to the *Deadline*. The *Deadline* is defined as the class period in which that graded assignment is returned to the class, unless there are extenuating circumstances.

For the mid-term report, no mark will be recorded for a missed summative assignment.

Where a student has not submitted enough work for the teacher to determine the student's level of achievement the report card will indicate that the student's work is incomplete and no grade will be assigned.

At the semester end, where summative assessments are incomplete, a mark of zero may be assigned and used to calculate the student's final grade.

Assessment Strategies

Formative

- in class questions and answers, discussions, daily homework/practice

Summative

- quizzes, tests, weekly assignments/projects/presentations, portfolios, and the final exam

Achievement Categories

Knowledge/Understanding	30%
Thinking/Inquiry	20%
Communication	20%
Application	30%

Curriculum strands:

- Exponential and Logarithmic Functions
- Trigonometric Functions
- Polynomial and Rational Functions
- Rates of Change

Learning Skills:

- Works Independently
- Team work
- Organization
- Work Habits
- Initiative

Evaluation

The year's work will be based on the following assessment tools that will include one or more of the four Achievement Categories striving to meet the overall percentages established for each category:

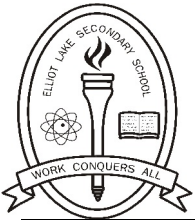
- quizzes
- tests
- assignments
- projects
- exam

FINAL MARK

Semester's Work: 70%

Final Summative Evaluation: 30%

Exam



**Elliot Lake
Secondary
School**

Evaluation Profile & Outline

2007/2008
Course Code

COURSE OUTLINE

COURSE OUTLINE			
Unit 1	List of strands included in unit	Types of activities and the categories of achievement that they evaluate	Percent that unit represents out of the 70% for the Summative Tasks
Brief description of unit of study			
Unit 2			
Unit 3			
Unit 4			
Unit 5			
Unit 6			
Summative Evaluation			Percent that each task represents out of 30% for final summative evaluation
Types of evaluation used to determine final 30 % of mark: exam, presentations, scrapbooks, etc..			