

Growing Minds  
Mathematics Department  
Course Outline  
Advanced Functions and Introductory Calculus 12  
(MCB 4U)

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This course is based on the following Ministry of Education documents:  
The Ontario Curriculum Grades 11 and 12, Mathematics, 2000.

Course Name: Advanced Functions and Introductory Calculus, Grade 12,  
University Preparation

Course Type: University Preparation

Course Code: MCB4U

Credit Value: One credit

Hours: 110 hours

Prerequisite: Functions and Relations, Grade 11, University Preparation, or  
Functions, Grade 11, University/College Preparation

Course Description (As specified in the Ministry of Education Policy Document)

This course builds on students' experience with functions and introduces the basic concepts and skills of calculus. Students will investigate and apply the properties of polynomial, exponential, and logarithmic functions; broaden their understanding of the mathematics associated with rates of change; and develop facility with the concepts and skills of differential calculus as applied to polynomial, rational, exponential, and logarithmic functions. Students will apply these skills to problem solving in a range of applications.