

Math 096

Algebra and Trigonometry

In this course, students will examine a variety of functions, and operations on functions, with an emphasis on notation and graphs; solve a variety of equations and practical problems; solve combinatorial problems and evaluate sums of finite or infinite series, using summation notation.

This course is designed for fast-learning students who need to complete their grade 12 math requirements in one semester. Students who need more time to learn new skills should choose Math 092/093 instead.

Prerequisites: (C+ or better in MATH 085), (B- or better in one of Principles of Math 11 or Pre-calculus 11), (C or better in one of Principles of Math 12, Pre-calculus 12, or MATH 094), or Upgrading and University Preparation assessment.

Equivalent courses: MATH 092 and MATH 093 together; or Math 110

Timetabling

Two sections of MATH 096 run each Winter and Fall semester; one on Abbotsford and one on Chilliwack campus.

What next?

- MATH 111 (Calculus I), with a B or better in MATH 096
- MATH 125 (Introduction to Discrete Mathematics), with a C or better in MATH 096
- MATH 141 (Calculus for Business), with a C+ or better in MATH 096
- STAT 106 (Statistics I), with a C or better in MATH 096

More information

Official outlines of mathematics courses:

<https://www.ufv.ca/calendar/CourseOutlines/PDFs/MATH/>

Short descriptions of other mathematics courses:

<https://www.ufv.ca/calendar/current/CourseDescriptions/math.htm>

COURSE EXAMPLES



Exponential Decay

Geologists have determined that Crater Lake in Oregon was formed by a volcanic eruption. Chemical analysis of a wood chip assumed to be from a tree that died during the eruption has shown that it contains approximately 45% of its original carbon-14. Estimate how long ago the volcanic eruption occurred.



Ferris Wheel

The Millennium Wheel, in London, is the world's largest Ferris wheel. It has a diameter of 450 feet. The Millennium Wheel completes one revolution every 30 minutes and its lowest point is 30 feet above the Thames River. Find an equation describing the height h (in feet above the river) with respect to time (in minutes) of a person riding this wheel, and then find how high this person is 18 minutes from the start.