



Seycove at sáyəmətən Secondary School

Calculus 12

Course Code: MCALC-12

Calculus 12 develops basic calculus concepts to help a student in college or university understand the language of future calculus courses. A student does not need to have completed Pre-Calculus 12 before taking this course. However, this is a challenging course and thus a student needs to participate in order to succeed. Although I will use your class time as efficiently as possible, some homework is required.

Many universities suggest taking Calculus 12 for admission to math, science, business and engineering programs. Some universities require this course to be done in class, rather than on-line, to ensure that students master the course content. Classroom instruction additionally provides constant and consistent feedback to produce not only correct solutions, but also those that are mathematically elegant.

Enduring Understandings and Big Ideas

By the end of this course students will be expected to understand that:

- Calculus is used in business, engineering and medicine to solve problems.
- Calculus is used to determine patterns and predict future trends.
- Derivation and integration are inverse functions.
- Calculus was developed to solve both math and physics based problems.

Inquiry Questions

- What is a limit?
- How do limits relate to derivatives?
- How do derivatives and integrals relate?
- How are derivatives and integrals used in daily situations?