

Calculus 12

Overview of the course:

This course is designed for students who intend to attend post-secondary education institutions in fields such as Engineering, Sciences, Computer Sciences and others. The course is an introductory course in Calculus, and will treat mostly Differential Calculus with a short reference to Antidifferentiation/Integration.

During the course, students will experience working with the tools of Differential Calculus. They will also be exposed to views on the historical developments of mathematics. Students will be encouraged to work in small groups as well as individually on their assignments.

To be successful in this course, students need a strong background in Algebra, Trigonometry and Geometry, as well as the will to spend at least an hour a day on individual study at home.

Intended topics of the course:

1. Functions – an in depth review of Precalculus courses
2. Limits
3. Differentials/Derivatives
4. Applications of Differentials/Derivatives
5. Introduction to Integration.