

COURSE: Calculus 12 (CALC12)

INSTRUCTOR

Chris Brandle

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RECOMMENDED PRE-REQUISITES

Pre-Calculus 12

CREDITS

4

OVERVIEW

The Big Ideas, Content, and Curricular Competencies for this course can be found here: [Calculus 12](#)

Big Ideas

The concept of a limit is foundational to calculus.

Differential calculus develops the concept of instantaneous rate of change.

Integral calculus develops the concept of determining a product involving a continuously changing quantity over an interval.

Derivatives and integrals are inversely related.

This course is designed for self-study, which means you go through the course at your own pace. This makes it ideal for learners who wish to take responsibility for establishing their own timeline and require flexible learning. Greater flexibility also means you have a greater responsibility. You are responsible for keeping yourself on track by adhering to a schedule that you will set as your first task in the course.

Topics Covered:

Pre-Calculus Review Limits & Continuity Differentiation Applications of Derivatives	Integration Application of Integrals Differential Equations
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ASSESSMENT

Students will have the opportunity to demonstrate their learning through a variety of means such as tests, quizzes, and written assignments.

REGISTRATION

Please note – vLearn is a District Online School and can only serve students in the SD22 Catchment Area. Grade 8/9 students need approval from their home school administrator to take courses with vLearn. Please use your SD22 email address to register (000000@sd22.bc.ca)



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