

**MATH 104: DIFFERENTIAL CALCULUS**  
**WITH APPLICATIONS TO COMMERCE AND SOCIAL SCIENCES**  
**SEPTEMBER - DECEMBER, 2016**

**Instructor-in-Charge:** Shawn Desaulniers  
**Email:** [shawn@math.ubc.ca](mailto:shawn@math.ubc.ca)  
**Common Website:** <http://www.math.ubc.ca/~shawn/Math104-184>

**Textbook :** *APEX Calculus, Gregory Hartman*  
*Creative Commons Attribution - Noncommercial (BY-NC) License.*  
*ISBN / EAN13: 1514225158 / 978-1514225158*

**Course Description:** Derivatives and rates of change, exponential and trigonometric functions, Newton's method, Taylor polynomials, maxima and minima, and graphing. Detailed learning objectives and timeline are listed on the common website.

This course is heavily coordinated and content taught will be the same across all sections. All sections will have two **common midterms** and a **common final exam**.

**Prerequisite:** High-school calculus and one of (a) a grade of 80% or higher in BC Principles of Mathematics 12 or Pre-calculus 12, or (b) a satisfactory score in the UBC Mathematics Basic Skills Test.

**Grading Scheme:**

WeBWorK Assignments	10%
Section Specific	10%
Midterm Exams (evening common exams)	30%
Final Exam	50%

Note that *a student must score at least 40% on the final exam to pass the course*, regardless of the grade computed by the above calculation. **Calculators are not permitted on any midterm or the final examination.**

**Midterms:** There will be a common midterm on **Thursday, October 13 and November 17 at 6:45p – 7:45p**. Your instructor will announce the location for your section in class, it will also be posted on the course webpage. Please contact the Instructor-in-Charge as soon as possible if you have a valid time-conflict.

**Final Exam:** The final examination in December is cumulative and covers the entire semester. It is common to all sections of MATH 104 and 184.

**ACADEMIC MISCONDUCT:**

UBC takes cheating incidents very seriously. After due investigation, students found guilty of cheating on tests and examinations are usually given a final grade of 0 in the course, along with other penalties such as suspension or cancellation of a scholarships. Please refer to the Academic Calendar for more information: <http://www.calendar.ubc.ca/vancouver/index.cfm?tree=3,54,0,0>