

**Course Title:** Calculus I - Science  
**Course Number:** 201 - NYA - 05  
**Section:** 00006  
**Semester:** Fall 2020

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## Course Description:

This course provides an understanding of the fundamental notions of differential calculus. Topics include: concepts of limit and continuity; the development of the derivative; trigonometric, exponential and logarithmic functions. Applications include graph sketching, related rates and optimization problems relevant to Science.

**Ponderation:** Theory 2 hours/week. Lab 2 hours/week. Homework 2 hours/week.

**Prerequisites:** See the [master course schedule](#).

## Teaching Methods:

A combination of lectures, class exercises, and weekly homework assignments will prepare students for one midterm and one final exam. The midterm and final exam are **in person** assessments and will take place at the College.

This course will employ a mix of synchronous and asynchronous learning activities and partly carried out on teleconferencing platforms (Zoom/Teams). Students are expected to be available during regular scheduled class hours.

**Textbook:** *Single Variable Calculus: Early Transcendentals 9th Edition*, by James Stewart. Publisher: Brooks/Cole. ISBN 978-0357022269. Approximate cost: \$139.95. Purchase of this textbook is optional.

**Additional Expenses:** Non-programmable non-graphing scientific calculator.

**Office Hours:** Thursdays 1:00 - 3:00

**Competencies:** For the course objectives and the expected learning outcomes, please consult the [course content document](#).

**Evaluation:** Your final mark will be calculated as follows:

Option A	Option B	
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20%	8%	Class exercises and WeBWorK (Weekly).
30%	12%	Midterm (Week of October 12).
50%	80%	Final Exam (to be scheduled in the final exam period).

If no final exam is written at the College, then Option A will be used to calculate the final mark. If

the final exam is written at the College during the final exam period, then the student's final grade will be the higher of the two options.

### **Course Policies:**

1. Students are expected to check Omnivox and the course webpage on a regular basis. Lecture material, announcements, and important dates will be posted there.
2. All questions concerning class exercises and WeBWork assignments must be fielded 48 hours before the deadline.
3. Students are responsible for all work even if they are absent. This includes: finding out what was missed, obtaining class notes, and being aware of all upcoming deadline for upcoming assignments, class exercises, and assessments.
4. Missed tests and assessments will not be re-administered unless the student provides valid proof, such as a medical note, or some other compelling reason. Absences due to health reasons must be documented by a legitimate doctor's note. A doctor's note must be from the doctor, not the receptionist, and must state that you were, in the doctor's professional opinion, in no condition to attend class that day. Note that in some cases, a representative of the college administration will call the clinic and confirm the veracity of the doctor's note. A make-up test, if offered, will normally be scheduled at the end of the semester.

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### **General Academic Policies**

It is the student's responsibility to be familiar with and adhere to all Vanier College Policies. A summary of the course-level policies that apply in this and all other Vanier courses can be found under "Course-Level Policies" in Important Vanier Links on Omnivox, or by following this [link](#). Complete policies can be found on the Vanier College website, under [Policies](#).

Unless explicitly allowed by the instructor, all electronic devices including but not restricted to smart phones, smart watches, Fit Bits - all models, cameras, laser devices, MP3 players, recording and/or playback devices in any form, ear buds, any Bluetooth device are prohibited during in class examinations. A simple possession of such devices is considered cheating and will be treated as such.