



Faculty of Science & Technology
Department of Mathematics

Course Title:	Differential Calculus	Teacher:	Sandi Mak
Course Number:	201 - SN2 - RE	Office/Phone:	D268, ext. 7553
Section:	00007	Webpage:	euclid.vaniercollege.qc.ca/ maks
Semester:	Fall 2024	Email:	maks@vaniercollege.qc.ca

Please note that the modality and detailed calendar of this course may need to be modified as a result of changing government health regulations. Should changes become necessary, this course outline will be modified accordingly.

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 3 hours. Lab 2 hours. Homework 2 hours.

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

Teaching Methods:

A combination of lectures, in class exercises, WeBWorK, and written assignments will prepare the student for one term test and one final exam.

Textbook: Calculus: Early Transcendentals; 9th edition by James Stewart et. al, ISBN# 9781337613927. Approximate cost: \$223.95

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

Office Hours: By appointment. Please send request by MIO.

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

Academic Resources: The [Tutoring and Academic Success Centre](#) (TASC) provides free peer tutoring every workday in E 300.

LIA (Learning Integration Assessment): Cumulative final exam during the examination period worth 40% of the term mark. If it is to the benefit of the student, then the LIA will be reweighted to 80% of the course grade. If the final exam is held online, then only the grading scheme in which the final exam is worth 40% will be used.

Important Dates:

An in-person midterm exam is tentatively scheduled for the **week of September 30th**. An in-person cumulative final exam will take place during the final exam period. WebWork and written assignments will be due every week.

Evaluation: Your final mark will be computed as follows:

Option A	Option B	
30%	10%	Midterm (week of September 30th)
15%	5%	WeBWorK (weekly, best 8 out of 10)
15%	5%	Written Assignments (weekly)
40%	80%	Final Exam (to be scheduled in the Final Exam Period)

Notes:

- 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 students' final grade will be the higher of the two options.
- In the case of a missed assessment for a short-term medical reason, the student needs to document the absence with a verifiable medical note (or other medical documentation deemed legitimate by the College) in order to receive an alternative assessment plan. A [student's self-declaration of a medical absence](#) will be considered valid documentation, providing the student follows the appropriate steps of reporting to their teacher(s) for each day they are absent. If the medical absence is for 5 or more consecutive school days, the student is required to provide valid medical documentation from a physician to support their situation.
- The make up date for a missed assessments (i.e. midterm) will be scheduled in the Final Exam period.

Classroom Policies:

1. Attendance is highly recommended. It is the student's duty to remain informed about what takes place in class he/she misses. Absence from class does not excuse students from their responsibilities.
2. All questions related to WebWorK and written assignments must be fielded 48 hours before the deadline. Be advised that the turn around time for a response from a MIO is 24-48 hours, Monday to Friday (9:00 AM to 5:00 PM). If a MIO is sent on Friday, expect the response on Monday.
3. Students are expected to check Omnivox and the course webpage on a regular basis. Course material, announcements, and important dates will be posted there.
4. Student work should be submitted in Adobe pdf format. A document which is corrupted and cannot be opened will receive a grade of zero.

General Academic Policies: It is the student's responsibility to be familiar with and adhere to the Vanier College Academic Policies. These policies can be found online on the Vanier College website, under Policies. Your attention is drawn in particular to the following policies. A brief summary of

each is included.

Academic Misconduct (Policy number 7220 - 31) Any form of academic misconduct will result in a grade of zero on the test or assignment and a letter from the teacher will be placed in your file. A repeated offence may lead to even more serious consequences. Please consult the Vanier Student Writing Guide, the Vanier College Catalogue, the Student Handbook, and your teacher for more information on what qualifies as academic misconduct according to the Institutional Policy on the Evaluation of Student Achievement (IPESA).

Student Misconduct in the Classroom (Policy number 7210 - 19) This policy provides guidelines for handling cases of student misbehaviour in the classroom and other instructional settings. Such cases may include conduct that is abusive to the teacher and/or other students, or disruptive to the teaching/learning process. This policy does not limit the teacher's or the College's right to take immediate action in cases of imminent danger to persons or property.

Code of Conduct The Code of Conduct sets forth principles, guidelines and norms of behavior expected from all individuals present at Vanier College, including students, faculty, employees, administrators, members of the Board of Directors, contractors and visitors.

Student Absences for Religious Holy Days see IPESA, Section 2.2.6) Students whose religious obligations require them to be absent from the College on a holy day not formally recognized in the College calendar must inform their teachers, in writing, during the first week of classes, of the particular date(s) and times of the religious holy days on which they must be absent by completing and submitting to their teacher the Religious Holy Days Absence form found on the Registrar's Office page on the Vanier College website <http://www.vaniercollege.qc.ca/registrars/request-forms/religious-holy-days>. Absences approved in this manner are considered to be excused absences. Students are responsible for material covered in the classes and labs they miss.

Student Proficiency in the Language of Instruction (Policy number 7210-33): The purpose of this policy is to foster student proficiency in English, the formal language of instruction at Vanier College. Emphasis on literacy and communication skills (writing, reading, speaking, and listening) is essential to students' academic and professional success.

Student Academic Complaints (Policy number 7210 - 8) The Vanier College Student Academic Complaints Policy and procedures puts an emphasis on mediation as the primary means to resolve complaints in the academic area. If you have a problem with a teacher and have been unable to resolve it by talking with him or her, you may wish to enlist the help of the Faculty Mediation Committee. The committee member names and contact information are available in Student Services or through the office of the Faculty Dean.

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