



Royal West Academy

Course Outline

Course:	Introduction to Calculus / Differential Calculus	
Teachers:	M. Ohayon mohayon@emsb.qc.ca awiltzer@emsb.qc.ca	Room(s): 201, 302, 307
MS Teams codes:	ryhernd	
Texts/workbooks:	Course notes provided by the teacher throughout the year Calculus: Single Variable Essential Calculus by James Stewart 2 nd edition	
Course description:	This course is offered to grade 11 students who have successfully completed Math 506. This course provides students with mathematical knowledge preparing them for mathematics courses offered in college. <u>Introduction to calculus: September-January</u> Topics include Complex Algebra, Angles of inclination, Trigonometry, Complex numbers, Matrices, Partial Fractions, Theory of polynomials, Mathematical induction. <u>Differential Calculus: January-June</u> Topics include Definition of a limit, Derivatives, Curve sketching, Application of derivatives, Introduction to the anti-derivative, differential equations.	
Remediation:	Day 1 and Day 2 (or by appointment) from 12h30 to 13h10 in room 302A	

Material Required: 1.5-inch binder or notebooks, dividers (4 to 5), scientific calculator, ruler, pencils, erasers, red or green pen.

Communication with Students/Parents: By email mostly or by phone.

Evaluation

Term 1 (50%) - August 29 th to November 4 th		
Competencies Targeted	Evaluation Methods	Timeline
Competency 2: Uses mathematical reasoning	Class Tests Quizzes	Mid and/or end of topic If applicable, 1 or 2 per topic
Competency 1: Solves a situational problem	Assignments	1-2 per topic
Term 2 (50%) - November 5 th to January 29 th		
Competencies Targeted	Evaluation Methods	Timeline
Competency 2: Uses mathematical reasoning	Class Tests Quizzes	Mid and/or end of topic If applicable, 1 or 2 per topic
Competency 1: Solves a situational problem	Assignments	1-2 per topic

Term 3 (100%) - January 30 th to June 6 th		
Competencies Targeted	Evaluation Methods	Timeline
Competency 2: Uses mathematical reasoning	Class Tests Quizzes	Mid and/or end of topic If applicable, 1 or 2 per topic
Competency 1: Solves a situational problem	Assignments	1-2 per topic

End of the Year Results

Students will have 2 math marks!

Introduction to Calculus	
Term 1	50% of final mark
Term 2	50% of final mark
Differential Calculus	
Term 3	100% of final mark

Additional Information / Specifications

Absent from class: Students will be given notes and examples covered in class therefore they are responsible for all material covered when absent from class.

Absent for a test: If a student is absent for a test, the parent must communicate with the teacher by email the morning of the test or provide a medical note as soon as the student returns to school. A student who is absent because of an ECA activity must give a written notice or an email to the teacher ahead of time. Repeated absences will be reported to the administration. ****All missed tests will be written the next day or upon student return**** If the following procedures are not followed a mark of 0 will be given for the test or evaluation.

Absent on a day an assignment is due:

- Absent on the day of: A scanned copy must be sent to the teacher before 12:30 on the day of absence.
- Absent for a longer period: If illness restricts working time, parents should email teacher advising them and a new due date will be discussed on a case-by-case basis.
- Late assignments: penalty of 20% per day (maximum of 3 days)
- Planned absence: Hand it in **before** the due date.

Calculators: Graphic calculators are **NOT ALLOWED** during evaluations. A regular scientific calculator should be used in class and during evaluations.

Homework: Students **MUST** do their homework. Even if homework is not checked regularly, it will help them complete assignments and tests.