



Royal West Academy

Course Outline

Course:	Introduction to Calculus / Differential Calculus	
Teacher:	M. Ohayon mohayon@emsb.qc.ca	Rooms: 301-302
MS Teams codes:	section 01: mu2787k section 03: rhi6q5c	
Texts/workbooks:	Precalculus (4 th or 5 th edition) by David Cohen Calculus: <u>Single Variable Essential Calculus by James Stewart 2nd edition</u> 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.	
Course description:	<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) at 12h30 to 13h10 in the science room	

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 31 st to November 3 rd		
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 4 th to February 16 th		
Competencies Targeted	Evaluation Methods	Timeline
Competency 2: Uses mathematical reasoning	Class Tests Quizzes Final Exam (50% of T1 and T2)	Mid and/or end of topic If applicable, 1 or 2 per topic Mid-December
Competency 1: Solves a situational problem	Assignments	1-2 per topic

Term 3 (100%) - February 17 th to June 8 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 Final Exam (50% of T3)	1-2 per topic Mid-June

End of the Year Results

Students will have 2 math marks!

Introduction to Calculus	
Term 1	25% of final mark
Term 2	25% of final mark
Final Exam (December)	50% of final mark
Differential Calculus	
Term 3	50% of final mark
Final Exam (June)	50% 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.

Student Name: _____

Parent Signature: _____