



Royal West Academy

Course Outline

Course:	Introduction to Calculus / Differential Calculus	
Teacher:	M. Ohayon mohayon@emsb.qc.ca	Rooms : 303-305-311
MS Teams code:	<u>rorme77 (section 11)</u>	<u>fp83i66 (section 14)</u>
Texts/workbooks:	Precalculus (4 th or 5 th edition) by David Cohen 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 4 from 12h30 to 13h10 and Day 7 from 12h30 to 13h10 (or by appointment) in the science room (next to room 302)	

Material Required: 2-inch binder with graph paper, dividers (4 to 5), ruler, scientific calculator, pencils, red or green pens, erasers.

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

Evaluation

Term 1 (100%) - August 31 st to January 18 th		
Competencies Targeted	Evaluation Methods	Timeline
Competency 2 (70%): Uses mathematical reasoning	Class Tests / Quizzes Final Exam (50% of term 1)	Mid and/or end of topic Approx. 1 or 2 per topic End of January-early February
Competency 1 (30%): Solves a situational problem	Assignments	1-2 per topic
Term 2 (100%) - January 19 th to June 6 th		
Competencies Targeted	Evaluation Methods	Timeline
Competency 2 (70%):	Class Tests / Quizzes	Mid and/or end of topic

Uses mathematical reasoning		Approx. 1 or 2 per topic
Competency 1 (30%): Solves a situational problem	Assignments Final Exam (50% of term 2)	1-2 per topic Mid-June

Introduction to Calculus	
Term 1	50% of final mark
Final Exam (Jan-Feb)	50% of final mark
Differential Calculus	
Term 2	50% of final mark
Final Exam (June)	50% of final mark

End of the Year Results (Students will have 2 math marks!)

Important note to students and parents/guardians regarding course outlines: Due to COVID-19, there are many unknowns as to how the 2021-22 school year will unfold. Please note that the information on this outline may need to be modified as the year progresses. Rest assured that any changes made will be done so to reflect what we feel is best to maximize students' success.

Additional Information / Specifications

Absent from class: Students will be given notes and examples covered in class therefore students are responsible for all material covered when he/she is absent from class.

Absent for a test: If a student is absent for a test, a parent must communicate with the teacher by email or by phone the morning of the exam 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
- Planned absence: hand it in **before** the due date.

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

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

Remediation: Day 4 from 12h30 to 13h10 and Day 7 from 12h30 to 13h10 (or by appointment) in the science room

Student Name: _____

Student Signature: _____

Parent Signature: _____