



Royal West Academy

Course Outline

Course:	Introduction to Calculus / Differential Calculus	
Teacher:	M. Ohayon	Room: 301-303
E-mail:	mohayon@emsb.qc.ca	Schoology code: JDN5R-5F6M5
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 1 and Day 7 (or by appointment) at 12h30 to 13h10 in the science room	

Materials Required: 2-3 inch binder or notebooks, ruler, dividers (4 to 5), scientific calculator, pencils, red or green pen, erasers.

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

Evaluation

Term 1 (50%) - August 28 to November 12		
Competencies Targeted	Evaluation Methods	Timeline
Competency 2: Uses mathematical reasoning	Class Tests Quizzes	Mid and/or end of topic Approx. 1 or 2 per topic
Competency 1: Solves a situational problem	Assignments	1-2 per topic
Term 2 (50%) - November 13 to February 8		
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 Approx. 1 or 2 per topic End of January-early February
Competency 1: Solves a situational problem	Assignments	1-2 per topic
Term 3 (100%) - February 11 to June 21 st		
Competencies Targeted	Evaluation Methods	Timeline

Competency 2: Uses mathematical reasoning	Class Tests Quizzes	Mid and/or end of topic Approx. 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 (Jan-Feb)	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 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 them complete assignments and tests.

Remediation: If results show that a student is experiencing difficulties, he/she may be obligated to attend remediation sessions.

Student Name: _____

Student Signature: _____

Parent Signature: _____