



Royal West Academy

Course Outline

| | | |
|---------------------|--|---|
| Course: | Introduction to Calculus / Differential Calculus | |
| Teacher: | M. Ohayon | Virtual (MS Teams) |
| E-mail: | mohayon@emsb.qc.ca | MS codes : ttcjiwu (section 2); c9hlibk (section 4) |
| 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: | <p>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.</p> <p><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.</p> <p><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.</p> | |
| Remediation: | Day 7 (or by appointment) from 12h26 to 13h16 in the science room | |

Material 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%) | | |
|---|---|--|
| 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%) | | |
| Competencies Targeted | Evaluation Methods | Timeline |
| Competency 2: Uses mathematical reasoning | Class Tests / Quizzes Final Exam (50% of term 2) | 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 |

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

| | |
|--------------------------|--------------------|
| Introduction to Calculus | |
| Term 1 | 100% of final mark |
| Differential Calculus | |
| Term 2 | 50% of final mark |
| Final Exam (June) | 50% of final mark |

Important note to students and parents/guardians regarding course outlines: Due to COVID-19, there are many unknowns as to how the 2020-21 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 them complete assignments and tests.

Remediation: Day 7 from 12h26 to 13h16 (or by appointment) in the science room (between rooms 302 and 304).

Student Name: _____

Student Signature: _____

Parent Signature: _____