

Calculus 12

2017 / 2018 Course Outline

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COURSE EVALUATION:

Each term, your **TERM MARK** will be calculated as follows:

- 85% Tests & Quizzes
- 15% Homework & Assignments

Your **WORK HABIT MARK** will be assigned based on the criteria outlined in the Work Habit Rubric. Your attendance/lates, effort in completing homework, and participation in class and group work will be considered when assigning your work habit mark.

Students taking Calculus 12 will be required to write a Final Exam in June. The exam will cover all the material learned during the year, and will count for 25% of the final grade.

Your **FINAL MARK** will be calculated as follows:

- 26% Term 1
- 27% Term 2
- 27% Term 3
- 20% Final Exam

TOPICS OF STUDY AND TIMELINE:

In order for students to meet the intended learning outcomes of this course, the following units will be studied.

- Introduction to Calculus, Review of Functions, Notation (September)
- Limits and Rates of Change (September to October)
- Derivatives (October to December)
- Differentiation and its Applications (December to February)
- Integrals (February to March)
- Integration and its Applications (March to June)

TEXTBOOK: Calculus, 5th edition, James Stewart, Thomson Brooks/Cole

SUPPLIES:

- a three ring binder with lined paper and graph paper, pen, pencil, eraser, ruler, etc.
- Calculus textbook (this is big and heavy – you can leave it at home for homework)
- A graphing calculator like the Ti-84 will be very helpful for parts of the course – either buy or borrow or try WabbitEMU for android/pc/mac

HOMEWORK:

Homework will be assigned with each class, and can generally be found at the bottom of the class notes sheets. You are expected to attempt every problem by showing all work and to correct your assignments using a different coloured pen. **There is a direct correlation between completing homework and student success in the course. If you want to do well, you MUST do the assigned questions to the best of your ability.**

RESOURCES ON THE INTERNET:

There are several excellent resources available on the internet to help you learn Calculus. Students are encouraged to check out the following whenever they need help:

PatrickJMT

CLASSROOM EXPECTATIONS AND BEHAVIOUR

1. Cell phones and electronic entertainment devices should never be used during INSTRUCTION AND ACTIVITY time (including texting and social media). For privacy reasons, videos are not to be recorded in the classroom without permission. Pictures of class notes may be taken, but pictures of people may not be taken without permission.
2. Attend all classes, be on time and bring all materials (pencils, calculator, notebook, completed homework).
3. Listen attentively when another person is talking (e.g. teacher, speaker, classmate).
4. If you have to be away, please bring a note from home explaining your absence on your FIRST day back. No note means I assume you SKIPPED class! On a test day, phone or e-mail me BEFORE THE TEST to let me know that you will not attend.
5. If a student misses a test or does poorly on a test, they will be given an opportunity at the end of the term to make up that mark with an end of term exam. Students may not make up more than 1 mark in a term.
6. Any cheating that is detected on assignments, tests, quizzes, or exams will result in a score of 0. A meeting with your parents and a school administrator will take place, where consequences and further action will be implemented.
7. Get help when you need it! You can make an appointment to get help from me either at lunch or afterschool on most days. You can usually find me in A208 or A226. In addition, there is a Math Clinic that you can go to get help on Thursdays afterschool in room A207. Students are encouraged to study together and help each other on homework and assignments (but this does not include borrowing and copying someone's homework 30 minutes before the class!)