

Grade 11 Applied Math (30S)

Course Code: 3903

Credit Value: 1.0 credits

Instructor: **Mrs. Frohwerk**

Textbook: "Nelson, Foundation of Mathematics 11", 2011

Glenella School

Term I – 2025-2026

Contact info: lfrohwerk@trsd.ca

Course Outline

Course Description:

Grade 11 Applied Mathematics (30S) is intended for students considering post-secondary studies that do not require a study of theoretical calculus. It is context driven and promotes the learning of numerical and geometrical problem-solving techniques as they relate to the world around us. It builds upon the foundation knowledge and skills from Grade 10 Introduction to Applied and Pre-calculus Mathematics and builds a foundation for Grade 12 Applied Mathematics.

Primary goals of Applied Mathematics are to have students develop critical-thinking skills through problem solving and model real-world situations mathematically to make predictions. These goals may be attained in a number of ways. Students may collect data in experiments and activities and then develop mathematical concepts by analyzing that data. They are encouraged to learn and demonstrate effective communication skills through a variety of media. Students are expected to become proficient in both oral and written communication skills.

Applied Mathematics is designed to promote student flexibility and responsibility. Flexibility is encouraged by having students work on non-routine problems and projects. Responsibility is encouraged as students work individually and in cooperative groups to explore connections with other mathematical areas, school subjects, and real-life applications.

Technology is an integral part of both learning and assessment in Applied Mathematics. Graphing calculators, spreadsheets, or other computer software will be used by students for mathematical explorations, modelling, and problem solving.

Units of Study:

Possibility 1		
Unit	Outcomes	Suggested hours
Quadratic Functions	R2, M1, L2	20
Scale	M2, M3, M1, L2	15
Proofs	G1, G2, L1, L2	10
Statistics	S1, S2, L2	20
Research Project	RP1, L2	10
Systems of Inequalities	R1, M1, L2	20
Trigonometry	G3, G2, L2	15
Total		110

Please note that the order and time spent on the units of study may not follow the above listing and are at the discretion of the instructor. Each class we have is approximately 70 minutes, so a 20-hour unit on Quadratic Functions will take around 17 classes. This includes tests, lessons and work classes. **You have to do your work and keep caught up.**

Mark Distribution: Final exam – 30% (Week of January 26, 2026)

Course Work – 70%

Course Work may include any/all of the following:

Homework: You will be assigned work from your textbook or given worksheets to complete following the lesson.

Hand In Assignments: There will also be several hand-in assignments that I will mark for each unit. Hand in assignments must be completed in class. Students will have their notes but will not have access to technology including laptop or cellphone. Hand-in assignments will follow the missing work policy described in the class expectations section. There will also be a review for each unit.

Tests will be given at the end most units. Some of the longer units may have more than one test. You must have the review for the unit completed before you write the test. All tests will be written with the aid of a **one-sided** student created study sheet. No student should have an identical study sheet as someone else. If this occurs, neither student will be allowed to use the study sheet.

Final Exams will be written by all on the day and time scheduled.

Materials

- ✓ Binder & dividers
- ✓ Laptop and headphones*
- ✓ Scientific Calculator
- ✓ Pencils, eraser, ruler

Students will use Teams to access the videos for their notes and to access the digital textbook. They will need to bring it to every class.

Class Expectations:

Students are expected to arrive for class on time and prepared (with all required materials).

- If a student must be absent from class, prior notice should be given and any missed work must be completed immediately after the student returns to class. It is the student's responsibility to ensure all missed work is completed.
- All assignments are to be completed to the best of the student's ability. Substandard work will not be accepted and the student will be required to redo the assignment properly.
- This is a senior 3 level course and students are expected to behave as responsible young adults. As principal duties may require my absence from class on occasion, students are expected to be able to work independently and with limited supervision. This includes being self-sufficient on occasions where I am unable to attend the start of class or am called away during scheduled class time.
- Do your best & be respectful!

Plagiarism/Cheating Policy:

The school handbook outlines the expectations in regards to academic dishonesty (If at any time you are unsure about an assignment it is the student's responsibility to ask for clarification), attendance and the use of technology.

1st offence- The student will receive a zero (0) on the assignment. A phone call/email will be sent to the parent/guardian.

2nd offence- A letter will also be sent home to the parent/guardian. The parent/guardian must sign the letter and return it to the school. The Student will receive a zero (0) on the assignment.

3rd offence- The student will receive a zero (0) on their assignment and they will be referred to the principle for further disciplinary action. A meeting will need to be arranged with the parent/guardian to address the severity of this issue.

Late Assignment Policy:

Assignments are expected to be handed in assignments on the due date. Late assignments will only be accepted by the teacher's discretion. It is up to the student to communicate with the teacher if they cannot complete the assignment on the expected due date.

Extra Help:

If a student requires extra help on a particular assignment/topic we covered in class, it is up to the student to request a meeting with the teacher.

I have read this outline over, and discussed it with my parent(s)/guardian(s) and understand what it contains. By getting these signatures, and appropriate contact information. Feel free to contact me via email at lfrohwerk@trsd.ca if you have any questions, or phone the school to arrange a meeting (352-4253).

Parent/Guardian Signature

Students Signature

Date

Parent email(s): _____ best phone number for contact: _____