



**Math 30-2**  
**Course Outline 2025 - 2026**

**Instructor:** Miss Sydney Swainston

**Room:** 117

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**Google Classroom Code:**

**Text/Supplies:**

- You will be invited to a google classroom that will have copies of all the teachers notes, assignments and links to extra practice.
- Supplementary material will be used where necessary.
- TI-83, TI-84, TI-inspire graphing calculator
- Fine tip whiteboard markers.

**Course Curricular Outcomes:**

Upon successful completion of this course students should...

1. Develop logical reasoning.
2. Develop critical thinking skills related to uncertainty.
3. Develop algebraic and graphical reasoning through the study of relations.
4. Develop an appreciation of the role of mathematics in society.

**Units of Study:**

**Unit 1: Set Theory, Counting Methods, Probability**

**Sept 2 – Oct 9**

- General Outcome: Develop logical reasoning; develop critical thinking skills related to uncertainty; develop an appreciation of the role of mathematics in society.
- Specific Outcomes:
  - 1.1 Analyze puzzles and games that involve numerical and logical reasoning, using problem solving strategies.
  - 1.2 Solve problems that involve the application of set theory.
  - 2.1 Interpret and assess the validity of odds and probability statements.
  - 2.2 Solve problems that involve the probability of mutually exclusive and non-mutually exclusive events.
  - 2.3 Solve problems that involve the probability of two events.
  - 2.4 Solve problems that involve the fundamental counting principle.
  - 2.5 Solve problems that involve permutations.
  - 2.6 Solve problems that involve combinations.
  - 4.1 Research and give a presentation on a current event or an area of interest that involves mathematics.

**Unit 2: Rational Expressions and Equations**

**Oct 14 - 31**

- General Outcome: Develop algebraic and graphical reasoning through the study of relations.
- Specific Outcomes:



- 3.1 Determine equivalent forms of rational expressions (limited to numerators and denominators that are monomials and binomials).
- 3.2 Perform operations on rational expressions (limited to numerators and denominators that are monomials and binomials).
- 3.3 Solve problems that involve rational equations (limited to numerators and denominators that are monomials and binomials).

### Unit 3: Polynomial Functions

Nov 3 – Nov 19

- General Outcome: Develop algebraic and graphical reasoning through the study of relations
- Specific Outcomes:
  - 3.7 Represent data, using polynomial functions (of degree equal to or less than three), to solve problems

### Unit 4: Exponential and Logarithmic Functions

Nov 20 - Dec 12

- General Outcome: Develop algebraic and graphical reasoning through the study of relations
- Specific Outcomes:
  - 3.4 Demonstrate an understanding of logarithms and the laws of logarithms.
  - 3.5 Solve problems that involve exponential equations.
  - 3.6 Represent data, using exponential and logarithmic functions, to solve problems.

### Unit 5: Sinusoidal Functions

Dec 15 – Jan 9

- General Outcome: Develop algebraic and graphical reasoning through the study of relations.
- Specific Outcomes:
  - 3.8 Represent data, using sinusoidal functions, to solve problems.

□ Schedule may need to be adjusted as we work through the semester. The remainder of the semester will be spent on review for the diploma exam

**Examination Rules:** Students are responsible to bring all materials needed for an exam to class before the exam. Students will not be allowed to share materials. Cheating during an exam will not be tolerated. A deferred exam will be given only when exceptional circumstances prevent the student from writing at the scheduled time.

All unit exams will be secured (you will not get to keep them). If you wish, you may come in during a scheduled time to go over an exam in detail. This can be done once all students have written the test.

### **Final Grade:**

The students' final grade in this course will be based on students' achievement of curricular outcomes and demonstration of skills required for effective learning.

#### School Grade:

Assignments	10%
Quizzes	40%
Unit tests	50%

#### Final Grade:

School Grade	70%
Diploma Exam	30%



Each unit may also include the following, but will be formatively assessed only:  
whiteboard activities, presentations, and practice exams

The final grade represents the students overall achievement of the learner outcomes and reflects the students corresponding level of achievement. Credit is given for this course if the student's grade is a 50% or higher.

### **APPEALS PROCESS:**

Should a situation arise where a student is not satisfied with an assessment outcome, first discuss the matter with the teacher outside of class time. If the teacher and student are unable to resolve the issue, then the teacher will approach another teacher to assess the assignment. (The teacher will not have prior knowledge of the student's name or the previous grade for the given assignment). If there is still an issue, a meeting will be set up between the student, teacher, parents and administration to resolve the matter. The commencement of an appeal must occur in a timely manner; within 48 hours of receiving the marked assignment. In return, the appeal process will be completed as soon as possible.

### **Reassessment Policy:**

The purpose of reassessment is to allow a student to remove an uncharacteristic grade. Individual reassessments will only be granted in extenuating circumstances.

To qualify for a reassessment the following requirements must be met:

1. You must show evidence of preparing for the original assessment
  - a. For example:
    - i. Completion of all formative and summative assessments (assignments/quizzes/projects).
    - ii. Completion of practice questions/formative assessments
    - iii. Actively engaged in lessons/class/learning activities and effective use of class time.
2. You must review the assessment and receive feedback in order to establish an understanding of your grade.
  - a. For example:
    - i. A student/teacher conference
    - ii. Post assessment self-reflection
3. You must provide evidence of enhanced learning of the outcomes.



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- a. For Example:
- i. Completion of teacher tutorial sessions
  - ii. Completion of additional practice materials
  - iii. Exam Analysis - identifying errors/common mistakes/distractors

4. You must arrange to meet for reassessment in a timely manner.
5. The reassessment may be in an alternative form than the original assessment, but will assess the same outcome(s) from the programs of study.

**Late Policy:**

Late assessments will receive a grade of zero in PowerSchool. If a late assessment is handed in BEFORE it has been graded and given to the rest of the class, I will mark it like normal and a grade with feedback will be awarded. If an assessment is handed in AFTER it has been graded and given to the rest of the class, the zero in PowerSchool

will be exempted, but it will not be graded and feedback will not be provided. If an assessment is not handed in at all, the grade of zero will remain in PowerSchool.

**NO BUS DAYS**

- In the event of buses not running; I will run a drop in google scheduled during regular time. This will be time to ask questions , clarify concepts, work on assignments, have group discussions, etc. No new material covered but dependent on the frequency of this situation this could change.

**EXTRA HELP:**

I am available to help students after school or mornings by appointment. I expect you to come for extra help if you are struggling with or need clarification of any aspects of the course.