



J.A. WILLIAMS HIGH SCHOOL

COURSE OUTLINE

Math 20-1-Room 217

Instructor's Name: Ms. Bonita Schreiner

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RESOURCES

1. Texts: Pearson Pre-calculus 11
: Absolute Value Pre Calculus Mathematics 11
: McGraw-Hill Ryerson Pre Calculus 11
2. Supplies
 - ✓ Student Supplied: Scientific or graphing calculator (TI-83 plus), Binder, paper, pencil, eraser, ruler, graph paper, geometry set, crayons or markers

COURSE OBJECTIVES

The main goals of mathematics education is to prepare students to:

- use mathematics confidently to solve problems
- communicate and reason mathematically
- appreciate and value mathematics
- commit themselves to lifelong learning
- become mathematically literate adults and use mathematics to contribute to society
- make connections between mathematics and its applications
- incorporate technology into curriculum

TIMELINE OF CONTENT*

September	Unit 1: Radicals
September	Unit 2: Trigonometry
October	Unit 3: Factoring Polynomials
October	Unit 4: Rational Expressions and Equations
November	Unit 5: Quadratic Functions and Equations
November	Unit 6: Linear and Quadratic Systems of Inequalities
December	Unit 7: Sequences and Series
January	Unit 8: Absolute Value and Reciprocal Functions

COURSE EVALUATION

Algebra and Number Strand (Units 1, 4, 8)	20%
General Outcome: Develop algebraic reasoning and number sense.	
Trigonometry Strand (Unit 2)	10%
General Outcome: Develop trigonometric reasoning.	
Relations and Functions Strand (Units 3, 5, 6, 7)	40%
General Outcome: Develop algebraic and graphical reasoning through the study of relations	
Final Exam	30%

Each strand will be assessed with a series of assignments, and quizzes making up 40% of the students mark in that strand. The remaining 60% will be based on the unit exams.

All course material will make up 70% of the final mark with a final exam worth 30%

Expectations

- Students are expected to come to class prepared and on time. Having your texts, completed homework, necessary calculators, pencils and erasers is expected. Binders/ notebooks are necessary for Math class. It is expected that all notes and examples provided during the lesson will be written down in your notebooks.
- It is essential that every attempt is made to be in class each and every day. Math is cumulative and everything you learn is necessary to learn new material the following day, week, month etc. Inexcusable absenteeism is a sure way to fall behind and make the learning of new material difficult.
- Lates will not be tolerated. Habitual tardiness will result in noon hour detentions. If you are late it is the expectation you enter the classroom quietly without disrupting the class. If the door is shut, knock once and wait for me to come and talk to you.
- It is expected that in the classroom, you exercise common sense and maturity. Swearing and bullying will not be tolerated and any use of profanity or bullying will result in a class suspension. It is expected that you will take responsibility for all actions.
- You are expected to take ownership for your learning. If you do not understand something, please set up a time to discuss this with me. I will be available most noon hours to offer tutoring for students experiencing difficulty in various areas of the curriculum.
- If you miss a class, you are fully responsible for finding out specifically what you missed from another student in the class and be prepared to participate in the next class. That means taking your books home every night so you are prepared if you miss a day. If you have an excusable absence, I can be contacted by email, and if done during working hours, I can email you the notes for the day.
- Absolutely **no cell phones** in class. Failing to abide by this rule will result in the phone being confiscated for the day. If students continue to use their cell phones in class, the cell phone will be confiscated, and parents will have to come and pick up the phone at school.
- **Electronic music devices will not be allowed in class.**
- Students will only be allowed to use the washroom during class time if it is an emergency. Students are expected to use the washroom during their breaks.
- Only one student will be allowed out of the class room at a time.
- Drinks will be allowed during class time but there will be no food or candy in the classroom.

Important Note

In most cases, your final mark in a course is directly related to the amount of effort put forth on each and every day. Attending regularly, copying down notes and examples, working in class and completing homework assignments greatly enhances your chances of success in Math 20-1. It is the expectation that students will do a minimum of 30-60 minutes of extra study in Math every night reviewing the day's notes and completing assigned practice exercises.

Assessment Practice

As per our school wide policy:

Students missing summative assessment marks (whether from absenteeism, incompleteness, illness, bereavement, religious observance, academic dishonesty or otherwise) will be given an opportunity to demonstrate their knowledge on the three (3) 'Zero Days' the school is now offering throughout each semester. Students can sign up to write an alternate assessment for up to three (3) academic courses that will be used by the teacher to replace missing assessments. Teacher discretion will be used to determine which items students need to complete in order to demonstrate the required outcomes. On 'Zero Days', there will not be any new assessments or materials taught. Students not needing to re-demonstrate or complete missed assessments will be able to receive teacher review, tutorials, or have extra time to work on formative assessment pieces in regularly scheduled classes.

If you are missing because of School-Based Events (educational school field trips, JAWS athletics, Skills Canada, Students' Union or Interact Club activities), you may be allowed to write an alternate assessment when you return. Students missing for other reasons, including family vacations, community sports, or other non-school related functions will have to abide by the three (3) scheduled Zero Days each semester.

Students may not write identical assessments when they miss the original assessment time, and must adhere to the 'Zero Day' schedule and teacher-provided re-assessment tool. Assessments will cover the same outcomes but may not necessarily be identical to the original assessment in format.

If it is determined that a student needs to re-demonstrate ('re-write') because of a previously unsuccessful attempt, the student may be allowed to participate in Zero Days. The student must understand that the most recent evidence of learning demonstrated will replace the original mark;; this means if the student's 're-write' mark is lower, the teacher may choose to use that, considering it is the most recent evidence. The teacher may also request evidence of further learning (attending tutorials, completing study guides, completing more practice examples etc.) prior to allowing a student to re-demonstrate.

After two Zero Days have passed, it may no longer be reasonable for students to use the third Zero Day for those outcomes previously covered. Students may be required to demonstrate on more current units of study, when necessary.

First Semester Zero Days: Friday, November 9
Friday, December 21
Monday, January 21