

Mathematics 20-1 Course Outline

TEACHER: Mrs. V. Lozinski

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OBJECTIVES:

1. To instruct the learning outcomes as prescribed by the Alberta Program of Studies and the Western & Northern Canadian Protocol.
2. To prepare students to proceed to Mathematics 30.
3. To develop worthwhile study habits, attitudes and values.
4. To encourage students to work and learn on their own so that they are capable of using mathematics for reasoning as well as applying mathematics to practical situations.
5. To develop an ability to work collaboratively and communicate mathematical ideas clearly and correctly to others.

TEXT: Pre-Calculus 11 (McGraw-Hill Ryerson, 2010)

COST: \$90.30

Students will be using the notes and doing questions from the Foundations of Mathematics and Pre-Calculus Grade 11 Workbook REPLACEMENT COST: \$20.00

COURSE CONTENT:

1. Operations on Radicals (Non-Calculator Unit)
2. Sequences and Series
3. Trigonometry
4. Factoring and its Applications
5. Quadratic Functions and Equations
6. Rational Expressions and Equations
7. Absolute Value Functions and Reciprocal Functions (Non-Calculator Unit)
8. Linear and Quadratic Systems and Inequalities (Non-Calculator Unit)

EVALUATION:

Unit Tests	45%
Practice tests/Assignments	10%
Project(s)	5%
Collaborative Inquiries	15%
Final Exam	25%

Workbook Lesson Assignments* Formative Assessment

*While the practice questions are not graded, all students are STRONGLY encouraged to complete the assigned work daily to ensure enough practice in preparation for the unit assessments.

EXPECTATIONS:

1. **Course Expectations:** Mathematics 20-1 is an academic math course. It is expected that students have a final grade in Math 10C of 60% or above in order to enter this course and have a reasonable expectation of success in Math 20-1.
2. **Attendance: ALL** classes are important, whether we are doing a lesson, activity, quiz, test or review. **Every missed class** is a missed opportunity to learn and will result in students putting in ample amounts of their own time to catch up. Students are to tell the teacher **IN ADVANCE** of field trips, vacations, tournaments, etc. and then to arrange a time to meet with the teacher prior to the absence in order to stay on top of the lessons. With the exception of an illness documented by a parent, **students who miss class and do not inform the teacher ahead of time will be expected to catch up on their own.**
3. **Class Time:** Students are expected to be ready to start at the beginning of class, required to work until the end of class, and any remaining work is to be finished at home. Mathematics is a skill, and practice is needed to become proficient. If finished early, the student is required to review previous material.
4. **Math Help:** Extra help is available during after school or by request. Any student not achieving at least 70% is strongly encouraged to access extra help on a regular basis.
5. **Office Hours:** By appointment.
6. **Homework:** Any work not completed in class must be done outside class time. Lesson questions are assigned at the end of each topic to allow students a risk-free practice space. Workbook will be presented to the teacher at the time requested. Assignments that are deemed incomplete will not receive a mark until completed, A unit outline and deadlines are recorded on Moodle and/or Power School.

7. **Academic Misconduct:** Any student claiming another person's work as their own will receive a zero and be referred to administration. This includes, but is not limited to: copying from solution books, use of PhotoMath app, copying other students' workbooks, releasing test questions.

8. **Missing Exams:** Students must write all exams. Students who miss exams or will receive a mark of **zero**, unless the teacher has been notified by phone or voice mail *prior to the exam* regarding the situation. Students will regularly be asked to write their exam prior to an extended absence. A doctor's note or certificate may be requested by the teacher for illness the day of the exam. Missed exams with cause will be written the next available day. School policy is in effect for missing quizzes or exams.

9. **Unit Test Re-writes:** Re-writes of UNIT TESTS are available provided ALL PRACTICE TEST QUESTIONS AND NOTES have been handed in completed for the original due date. A re-write will also involve the completion of remedial work to work on missing skills.

10. **Corrections for half marks:** Students may make corrections to any of their completed PRACTICE TEST ASSIGNMENTS for half the missing marks. Corrections are due prior to the next time the homework book/review is taken in, and must be made next to the original question in a different colour. It is to the student's advantage to attempt every assigned question.