

Mathematics 20-1 Course Outline

TEACHER: Mrs. C. Pawelko cpawelko@rvschools.ab.ca prior to 7 pm

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 examples from the Foundations of Mathematics and Pre-Calculus Grade 11 Workbook. Students can copy the material from the workbook although this is VERY time consuming. The workbook can be purchased at a cost of \$15.00 enabling students to write in the workbook (see your teacher for details).

COURSE CONTENT:

1. Operations on Radicals
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
8. Linear and Quadratic Systems and Inequalities

EVALUATION:

Unit Tests	35%
Assignments/Quizzes	10%
Summary Test	10%
Project	5%
Collaborative Inquiry	10%
Final Exam	30%

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 65% or above in order to enter this course. Students should have a final mark of 65% or above to 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. For School**

Attendance Policy, see the Student Handbook on the Cochrane High Website
(<http://schools.rockyview.ab.ca/cochrane/publications/2011SHB.pdf/view>).

3. **Technology:** Students are expected to monitor the Moodle sites DAILY, along with the online marks program, regularly in order to make the most of their learning opportunity in math this semester.
4. **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. All assignments must be completed. If finished early, the student is required to review previous material.
5. **Homework:** Any work not completed in class must be done outside of class time (use flex time). Students are required to complete all assignments. Assignments are due at the beginning of class. A unit outline and deadlines are recorded on the whiteboard in the classroom.
6. **Corrections for half marks:** Students may make corrections to any of their completed workbook assignments for half the missing marks. **Since mathematics is relentlessly cumulative, corrections are due prior to the next time the homework book/review is taken in.** Corrections must be made next to the original question in a different colour. THIS POLICY APPLIES ONLY TO WORKBOOK QUESTIONS.
7. **Missing Exams/Quizzes:** Students must write all exams. Students who miss exams or quizzes will receive a mark of zero, unless the teacher **has been notified at least 24 hours prior to the exam/quiz** regarding the situation. A doctor's note or certificate may be requested by the teacher to verify an absence. An absence with cause will require the exam to be written in flex time the next available day. School policy is in effect for missing quizzes or exams.
8. **Late Policy:** Students who are continually late for class will spend flex time to make up time missed. Students who continue to arrive late to class will be referred to administration.
9. **Math Help:** Extra help is available during flex time. Anyone achieving less than 75% is presumed to have an unsatisfactory understanding of the material and is expected to seek extra help. See schedule in classroom.
10. **Progress:** Every attempt is made to keep parents informed of students' progress in this class. Progress can be checked through the web-based marks program. Parents are encouraged to phone or email the teacher if they have any questions or concerns. Office hours are posted on the CHS website.
11. **Appeals:** Students have the right to appeal a grade for any material handed in. Students may also appeal their final grade. Refer to the Student Handbook for the proper procedure.
12. **Materials Required:** A graphing calculator (with spare batteries) is required. A TI-84 or TI-83 is recommended, as the instructor will be using the TI-84, although other models are acceptable. TI-85 calculators are NOT allowed.
13. **Food and Drinks:** Students may bring a small water bottle to class. Healthy food and drinks are permitted provided students leave behind no mess.
14. **Electronic Devices:** Cell phones are to be turned **OFF** in class. See the Student Handbook (<http://schools.rockyview.ab.ca/cochrane/publications/2011SHB.pdf/view>)
15. **Classroom Etiquette:** Students are NOT permitted to wear any hats or any other type of headgear in class. Students are expected to maintain a tidy and clean classroom for the benefit of all students and staff. At the end of each class, please pick up any paper, etc. on the floor (even if you did not put it there) and push the chairs into the desks. All students are to be respectful of one another and the teacher. Appropriate language and dress are also expected. Students will be given one warning. Students may be asked to leave the room and/or report to the office if unable to meet this expectation.