

Mr. Hazlewood

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Grade 11 Essential Math

Essential Math 30S – Course Outline

Credit Value: 1 Credit

Course Code: 3903

Prerequisites: None

Required Materials: Binder, paper, pen, calculator

Textbook: Etienne, S. et. al. 2012. Math At Work 11. McGraw Hill Ryerson, Whitby, ON.

Mathematical wisdoms...

"Mathematics is a game played according to certain simple rules with meaningless marks on paper."

- David Hilbert

"In mathematics, you don't understand things. You just get used to them."

- Johann von Neumann

Course Description

Essential Math 30S is a course designed for students who do not plan on attending post-secondary studies or whose studies will not require a mathematical background. The focus of the course is to build upon students mathematical skills from Essential Math 20S as well as introduce some new concepts in the world of finances and trigonometry.

Students will learn how to invest and save for the future, as well as how to shop around to find the better deals and make use of their incomes.

One of the main focuses of the course is to have students use technology extensively to help them analyze problems. During the semester students will use calculators, templates, spreadsheets, and online applications to investigate mathematical applications.

Course Timeline

Unit 1: Design Modeling

**Scale Factor*

**Unit Conversions*

(Assessment Feb. 25)

Unit 2: 3D Geometry

**Surface Area*

**Volume*

(Assessment Mar. 17)

Unit 3: Trigonometry

**Primary Trig Ratios*

**Problem Solving*

Unit 4: Interest & Credit

**Simple Interest*

**Compound Interest*

(Assessment May 8)

Unit 5: Managing Money

**Consumer Decisions*

Unit 6: Statistics

**Calculating averages*

Unit 7: Relations & Patterns

**Slope*

(Assessment June 4)

Assessment – curriculum available at <https://www.edu.gov.mb.ca/k12/cur/index.html>
Course Work (70%) – Each topic will have multiple formative assessments to help students recognize areas of strength and areas to continue to improve on. There will also be at least one summative assessment in each topic that will be weighted based on the amount of time spent on that section. Larger sections that the class finds interesting will have larger assessments worth a greater percentage of the course mark. Final mark will be a percentage grade.

Final Exam (30%) – The final exam is cumulative, and will focus on material covered on various topic assessments.

Academic Dishonesty – any act of cheating, plagiarizing, or copying of work by a student will result in stiff penalties. The first offense will be a choice of zero on the assignment or a redo at my convenience, as well as a letter sent home to your parents. The second offense will be an automatic zero, with a referral to administration for any further discipline.

Late Assignments – There are no assignments in this course. Performance assessments and inquiry projects are due on or before the date set. Other than medical emergencies and prior arrangements, failure to do so will result in a grade of 0.

Missed Assessments & Rewrites – Any missed assessment will be given a grade of 0 unless valid reasons are given (eg. *hospitalization*). A student who misses an assessment will be required to complete it during the lunch hour (or spare) **on the day they return to school**. Assessments can be rewritten upon the request of the student, but will only be granted after that student has earned the opportunity. This requires attendance at lunch (or spare) for extra help and practice, as well as multiple formative assessments in order to demonstrate sufficient understanding.

Attendance – Please attend class. If you miss a class it is your responsibility to catch up on missed work. If you need extra help I am available most lunch hours upon request. Missing 10 classes will result in a meeting with parents and principal to determine status in the course.

Technology – Cell phones are only to be used in class when instructed to do so. All students will be required to hand in phones at the beginning of each class.

Class Expectations – Be on time for class, with all required materials. Be involved in class discussions and complete all assigned work. Ask for extra help when needed or when missing class.