**Ardrossan Math 30-2**

**Course Outline**

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| **Textbook:** | *Principles of Mathematics 12* |

**Prerequisite:** Math 20-1 or Math 20-2

**Recommended:** 50% or greater in Math 20-1 or Math 20-2

The goal of the course is to provide prerequisite attitudes, knowledge, skills and understandings for success in future math courses then eventually for specific post-secondary programs or direct entry into the work force. The course will provide students with mathematical understandings and critical-thinking skills. The focus of student learning will be on developing a conceptual and procedural understanding of mathematics.

Math 30-2 is designed for students who are interested in careers that require a university or college program. This course will provide students with both mathematical reasoning and critical-thinking skills.

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

• solve problems• communicate and reason mathematically• make connections between mathematics and its applications• become mathematically literate• appreciate and value mathematics• make informed decisions as contributors to society.

Topic Approximate Days .

1. Set Theory 8 days
2. Counting Methods 10 days
3. Probability 9 days
4. Rational Expressions and Equations 11 days
5. Polynomial Functions 11 days
6. Exponential Functions 10 days
7. Logarithmic Functions 11 days
8. Sinusoidal Functions 8 days

###### EVALUATION

Your school mark is determined on your achievement in the above areas.

**Math Help:**

It is the goal of every teacher to help students succeed in math. There are a variety of support options available to students including noon hour math assistance, and individual tutors for hire. Interested students should discuss their needs with their teacher.

**Required Materials:**

All students are required to have an Alberta Education approved graphing calculator. TI-83 Plus and newer is recommended, please keep an extra set of batteries on hand. Students should come to class with plenty of paper and pencils as well as a dedicated math notebook or binder.