

APPLIED ARTS DIVISION
MATH 030
6 Credit Course
Fall, 2018



COURSE OUTLINE

MATH 030

BASIC COLLEGE MATHEMATICS

147 HOURS

6 CREDITS

PREPARED BY: Annie-Claude Letendre, Instructor
APPROVED BY: Name, Title

DATE: June 28, 2018
DATE:

APPROVED BY ACADEMIC COUNCIL:

RENEWED BY ACADEMIC COUNCIL:



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BASIC COLLEGE MATHEMATICS

INSTRUCTOR: Annie-Claude Letendre	OFFICE HOURS: By appointment
OFFICE LOCATION: A2208	CLASSROOM: n/a
E-MAIL: aletendre@yukoncollege.yk.ca	TIME: n/a
TELEPHONE: (867) 668-8850	DATES: September 5 th - April 26 th

COURSE DESCRIPTION

Math 030 aims to enable adult learners to acquire mathematical knowledge, skills, and strategies needed to enter appropriate higher level courses to satisfy personal or career goals. This course introduces students to algebraic mathematics beginning with a review of pre-algebra mathematics and an introduction real numbers and algebraic expression. Topics include measurement, geometry, rational expressions, scientific notation, solving linear equations and graphing, operations on polynomials, factoring polynomials and introductory trigonometry.

PREREQUISITES

Successful completion of Foundations 020 or Acceptance to College Prep

LEARNING OUTCOMES

Upon successful completion of the course, students will be able to:

- Add, subtract, multiply & divide rational numbers and solve rational equations
- Solve single-variable equations
- Translate a problem into an equation, use equations to solve problems, and graph linear equations
- Add, subtract, multiply & divide and factor polynomials
- Use right angle trigonometry to solve problems

COURSE FORMAT

Self-study format: Course content will be covered with the aid of a self-study textbook and a Moodle page. The instructor will supply and organize the materials and help set up a pacing schedule for the student.

The Academic Support Centre is open regularly and students are encouraged to use as many of the tutorial hours as fit into their schedules. Please see instructor for a schedule of the hours when an instructor is available for Math 030 support.

ASSESSMENTS:

Assignments

There are many practice exercises in the textbook. Students are expected to work through a chapter completing **all exercises** and **odd numbered questions** in the exercise set for the sections covered. Answers are provided after each exercise set. Upon completion of a chapter, students will either submit an assignment for that chapter or write a unit test, as identified on the course syllabus. If needed, additional work may be assigned.

20% of the final mark for this course is based on chapter assignments. Students have up 3 days to hand in an assignment from its due date.

Unit Tests

There is a unit test after each one or two chapters in the text and for the modules. The unit tests include review questions from previous chapters.

15% of the final mark for this course is based on chapter tests.

Exams

There will be one mid-term exam covering the contents of chapters 1 to 3, and one final exam covering all chapters with emphasis on the last four units. **The midterm exam is worth 25% of the final course grade. The final exam is worth 30% of the final grade.**

EVALUATION:

Assignments	20%
Unit Tests	15%
Midterm Exam	25%
Final Exam	30%
Quizzes/Homework	10%
Total	100%

NOTE: The passing mark in Math 030 is 50%, but 65% is required to go on to Math 050.

Rewrites:

A rewrite for a failing grade on an examination (less than 50%) may be permitted at the instructor's discretion. These examinations will be written no earlier than two weeks after the date of the original examination. The mark of the rewrite will be recorded whether or not it is higher or lower than the original; however, a maximum mark of 65% will be recorded.

"No Shows":

A student who misses an examination will receive a mark of zero for that examination, but may be permitted a rewrite. Exceptions may be made if a student receives prior permission from the instructor, or faces an emergency. Some form of documentation of the emergency may be required.

Letter Grading: Yukon College standard letter-grade system will be used for Math 060.

REQUIRED TEXTBOOKS AND MATERIALS

Required Textbook: Math 030 Binder

Supplementary Materials:

1. Student's Solutions Manual available on-line and on Math 030 Moodle Page
2. World Wide Web Resources a. Khan Academy b. YouTube

Required Supplies:

Three-ring binder with dividers, writing paper, graph paper, ruler, pencils, scientific calculator.

ACADEMIC AND STUDENT CONDUCT

Information on academic standing and student rights and responsibilities can be found in the current Academic Regulations that are posted on the Student Services/ Admissions & Registration web page.

PLAGIARISM

Plagiarism is a serious academic offence. Plagiarism occurs when a student submits work for credit that includes the words, ideas, or data of others, without citing the source from which the material is taken. Plagiarism can be the deliberate use of a whole piece of work, but more frequently it occurs when students fail to acknowledge and document sources from which they have taken material according to an accepted manuscript style (e.g., APA, CSE, MLA, etc.). Students may use sources which are public domain or licensed under Creative Commons; however, academic documentation standards must still be followed. Except with explicit permission of the instructor, resubmitting work which has previously received credit is also considered plagiarism. Students who plagiarize material for assignments will receive a mark of zero (F) on the assignment and may fail the course. Plagiarism may also result in dismissal from a program of study or the College.

YUKON FIRST NATIONS CORE COMPETENCY

Yukon College recognizes that a greater understanding and awareness of Yukon First Nations history, culture and journey towards self-determination will help to build positive relationships among all Yukon citizens. As a result, to graduate from ANY Yukon College program, you will be required to achieve core competency in knowledge of Yukon First Nations. For details, please see www.yukoncollege.yk.ca/yfnccr.

ACADEMIC ACCOMMODATION

Reasonable accommodations are available for students requiring an academic accommodation to fully participate in this class. These accommodations are available for students with a documented disability, chronic condition or any other grounds specified in section 8.0 of the Yukon College Academic Regulations (available on the Yukon College website). It is the student's responsibility to seek these accommodations. If a student requires an academic accommodation, he/she should contact [the Learning Assistance Centre \(LAC\): lac@yukoncollege.yk.ca](mailto:the.Learning.Assistance.Centre@yukoncollege.yk.ca).

TOPIC OUTLINE

Chapter 1 - Whole Numbers

Chapter 2 - Integers

Chapter 3 - Fundamentals of Algebra

Module - Geometry

Chapter 4 - Fractions

Chapter 5 - Decimals

Chapter 6 - Proportions and Ratios

Chapter 7 - Percent

Chapter 8 - Graphing Linear Equations

Chapter 9 - Polynomials: Operations

Chapter 10 - Polynomials: Factoring

Module - Trigonometry