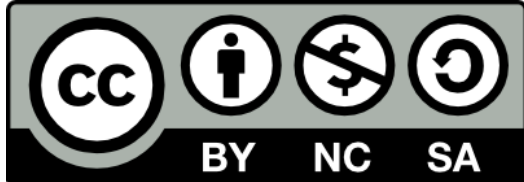YukonCollege

COURSE OUTLINE

MATH 020

MATHEMATICS FUNDAMENTALS

3 CREDITS

PREPARED BY: Gabe Ellis, Instructor
DATE: April 1, 2018

APPROVED BY: Erica Bourdon, Chair
DATE: April 2, 2018

APPROVED BY ACADEMIC COUNCIL:
RENEWED BY ACADEMIC COUNCIL:

MATHEMATICS FUNDAMENTALS

INSTRUCTOR:	Gabriel Ellis	**OFFICE HOURS:**	Fridays 10:00-12:00
OFFICE LOCATION:	A2303	**CLASSROOM:**	A2315
E-MAIL:	gellis@yukoncollege.yk.ca	**TIME:**	8:30-10:00 am
TELEPHONE:	867.456.8642	**DATES:**	Monday to Friday

COURSE DESCRIPTION

Basic Mathematics focuses on solidifying skills with whole numbers, fractions, decimals, ratio and proportion, percent, data, graphs, and statistics, measurement systems, geometry, and introducing concepts involving real numbers and algebra. This course will prepare students for MATH 030 or an equivalent introductory algebra course.

PREREQUISITES

Admission to College Access Programs

EQUIVALENCY OR TRANSFERABILITY

N/A

LEARNING OUTCOMES

Upon successful completion of the course, students will be able to:
- perform basic computations with whole numbers
- demonstrate effective problem-solving strategies
- recognize and use mathematical terminology
- know how to perform basic computations using a calculator
- demonstrate effective estimation skills

COURSE FORMAT

Lecture-based instruction: There will be five one-and-a-half hour classes per week. The instructor sets the schedule and will cover the sections as outlined. Daily homework is assigned, and new topics are explored daily. Students should be prepared to put in approximately two hours of homework daily.

ASSESSMENTS:

Attendance & Participation

It is the student's responsibility to attend all classes either remotely or in person. Students who miss classes are responsible for any missed work.

20% of the final mark for this course is based on attendance, periodic homework checks and quizzes.

Assignments

There are two assignments scheduled throughout the course. Each assignment will be given a due date. Assignments submitted after the due date will receive a deduction to a maximum of 15%. Assignments cannot be accepted and will receive a grade of zero after they have been returned to the class (generally three days). If the due date is missed owing to an emergency, an alternate assignment may be given.
20% of the final mark for this course is based on chapter assignments.

Tests

There is a **unit test after units 1, 3 and 4** in the text and after the geometry module. There is no midterm or final exam. 60% of the final mark for this course is based on unit tests.

Note: If a scheduled test is missed, students will have up to **one week** to re-schedule the test and will be subject to a **5% penalty**. If the test has not been written within the one week penalty period, the student will receive a mark of zero for the test unless prior arrangements have been made with the instructor.

EVALUATION:

Homework/Attendance/Quizzes	20%
2 Assignments	20%
3 Unit Tests	60%
Total	100%

The passing mark for the course is 50%, but a final course mark of at least 65% is necessary to go on to MATH 030.

REQUIRED TEXTBOOKS AND MATERIAL

Textbook
Arithmetic for College Students
By David Lippman & MITE
Available on-line at http://www.opentextbookstore.com/arithmetic/book.pdf

Supplementary Materials
Supported by **MyOpenMath**
https://www.myopenmath.com/course/course.php?cid=807&folder=0

Required Supplies

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

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.

Electronic Devices

In order to be successful in classes and minimize distractions for others, cell phones, iPods and other electronic devices must be turned off while students are in class. In an emergency situation, the instructor may give a student permission to use a cell phone.

Appropriate Language

In all areas of the college environment students are responsible to show respect for others; swearing, or language that is discriminatory or derogatory in relation to race, sex, ethnic background, religious beliefs, age and physical condition is not appropriate.

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.