



COURSE OUTLINE

MATHEMATICS 020 **Mathematics Fundamentals**

3 CREDITS

PREPARED BY: Gabriel Ellis, Instructor

DATE: August 19, 2020

APPROVED BY: Erica Bourdon, Chair

DATE: August 19, 2020

APPROVED BY SENATE: August 19, 2020

RENEWED BY SENATE: August 19, 2020



This work is licensed under the Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International License. To view a copy of this license, visit <http://creativecommons.org/licenses/by-nc-sa/4.0/>.

COURSE TITLE

INSTRUCTOR: Gabriel Ellis
OFFICE LOCATION: A2303
E-MAIL: gellis@yukonu.ca
TELEPHONE: 867.456.8642

OFFICE HOURS: Mondays 1-2PM
CLASSROOM: Online via Zoom
TIME: 8:30-9:15am
DATES: Monday through Fridays
Sept. 1st-Dec. 11th, 2020

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

RELATED COURSE REQUIREMENTS

This online course requires a computer with camera and internet connection.

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 via scheduled online ZOOM sessions: There will be five 45-minute 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:

It is the student's responsibility to attend all classes remotely. 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.

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.

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 University.

YUKON FIRST NATIONS CORE COMPETENCY

Yukon University 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 University program, you will be required to achieve core competency in knowledge of Yukon First Nations. For details, please see www.yukonu.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 University Academic Regulations (available on the Yukon University 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@yukonu.ca.
