School of Liberal Arts

CRN #10217

Math 020

Mathematics Fundamentals

Fall 2022

3 CREDITS

Course Outline

INSTRUCTOR	Gabriel Ellis	**OFFICE HOURS**	Mondays 3-4PM
OFFICE	A2303	**CLASSROOM**	A2103
E-MAIL	gellis@yukonu.ca	**CLASS TIME**	1:00 pm-2:20 pm, Mon-Friday Sept.6-Dec.16, 2022
TELEPHONE	867-456-8642	**CRN**	#10217
Liberal Arts office: Ayamdigut Campus A2501, liberalarts@yukonu.ca, 867-668-8770			

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.

COURSE REQUIREMENTS

Prerequisite(s):

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

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.

COURSE FORMAT

Delivery format

There will be five 1.2hr face to face lecture-based instruction 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.

EVALUATION

ASSESSMENTS:

Attendance & Participation

It is the student's responsibility to attend all classes. 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 ENG 050.

TEXTBOOKS & LEARNING MATERIALS

Textbook

Arithmetic for College Students

By David Lippman & MITE

Available at the book store or 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

COURSE WITHDRAWAL INFORMATION

Students may officially withdraw from a course or program without academic penalty up until two-thirds of the course contact hours have been completed. Specific withdrawal dates vary, and students should become familiar with the withdrawal dates of their program. See withdrawal information at www.yukonu.ca/admissions/money-matters

Refer to the YukonU website for important dates: www.yukonu.ca/admissions/important-dates

Refunds may be available. See the Refund policy and procedures at www.yukonu.ca/admissions/money-matters

ACADEMIC INTEGRITY

Students are expected to contribute toward a positive and supportive environment and are required to conduct themselves in a responsible manner. Academic misconduct includes all forms of academic dishonesty such as cheating, plagiarism, fabrication, fraud, deceit, using the work of others without their permission, aiding other students in committing academic offences, misrepresenting academic assignments prepared by others as one's own, or any other forms of academic dishonesty including falsification of any information on any Yukon University document.

Please refer to Academic Regulations & Procedures (updated bi-annually) for further details about academic standing, and student rights and responsibilities: www.yukonu.ca/policies/academic-regulations

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 at www.yukonu.ca/policies/academic-regulations

It is the student's responsibility to seek these accommodations by contacting the Learning Assistance Centre (LAC): LearningAssistanceCentre@yukonu.ca.

TOPIC OUTLINE

Week	Topic
1	Whole numbers
2	Adding
3	Subtracting
4	Estimation of sums and differences
5	Multiplication
6	Division
7	Exponents and square roots
8	Order of Operations
9	Graphing Data
10	Mean, Median and Range
11	Areas and perimeters
12	Fractions and mixed numbers
13	Factors and primes
14	Decimals, percent, and ratios
15	Geometry unit