

Math - Fundamental Level 2 - MATH 020

Access Education/Upgrading for Academic and Career Entry

Course Outline

COURSE IMPLEMENTATION DATE:
OUTLINE EFFECTIVE DATE:
COURSE OUTLINE REVIEW DATE:

January 2011 September 2021 March 2026

GENERAL COURSE DESCRIPTION:

Math 020 is Fundamental Level 2 Adult Basic Education course designed to increase student competence and confidence in mathematics and develop basic math skills to enable students to function more effectively in personal, work and educational situations. Concepts covered include rounding, addition, subtraction, simple multiplication, money and time.

Program Information: Math 020 is intended for those who struggled with these learning outcomes in the past and require intensive review. It also serves as preparation for higher level math courses for those who have been out of school for several years.

Delivery: This course is delivered in a directed studies format.

Hours for this course: 30 hours

Typical Structure of Instructional Hours:

Instructional Activity	Duration
Lecture Hours	
Seminars / Tutorials	
Laboratory / Studio Hours	
Practicum / Field Experience Hours	
Other Contact Hours – Directed Studies	30
Total	30

Practicum Hours (if applicable):

Type of Practicum	Duration
On-the-job Experience	N/A
Formal Work Experience	N/A
Other	N/A
Total	N/A

Course Outline Author or Contact: Leanne Caillier-Smith, MEd					
Learnie Caimer-Siritii,	iviLu	Signature			
APPROVAL SIGNATU	JRES:				
Department Head Joy Brown E-mail: jbrown3@d	cotr.bc.ca	Dean of Trades and Te Dr. Jack Moes E-mail: jmoes@cotr.b			
Department Head Signatu	re	Dean Signature			
EDCO					
Valid from: Septen	nber 2021 – March 2026				
Education Council Approve	al Date				
COURSE PREREQUIS	SITES AND TRANSFER CREDIT:				
Prerequisites:	None				
Corequisites:	None				
Flexible Assessn	nent (FA):				
Credit can be aw	varded for this course through FA		☑ Yes	□ No	
	Learners may request formal re the Rockies through one or mo Worksite Assessment, Demons Interview, Products/Portfolio, C more information.	re of the following procest tration, Standardized Tes	sses: Exterr t, Self-asses	nal Evaluation, sment,	
Transfer Credit:	For transfer information with please visit http://www.cotr.		rta and othe	er institutions,	
	Students should also contact want transfer credit.	an academic advisor at t	he institutio	n where they	

Prior Course Number: N/A

Textbooks and Required Resources:

Textbook selection varies by instructor and may change from year to year. At the Course Outline Effective Date the following textbooks were in use:

Directed studies/self-paced format: ABE Adult Literacy Fundamental Mathematics Book 2 - Province of British Columbia Ministry of Advanced Education and Labour Market Development

Please see the instructor's syllabus or check COTR's online text calculator http://go.cotr.bc.ca/tuition/tCalc.asp for a complete list of the currently required textbooks.

LEARNING OUTCOMES & COURSE TOPICS:

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

Lea	arning Outcome	Sub-outcomes/skills
Stu	idents will be able to	By achieving this broader outcome, student will
		demonstrate that they can also
1. 2. 3. 4.	Evaluate multi-digit expressions using addition, subtraction with carrying or borrowing/trading Identify place value to 1,000,000 Round whole numbers up to 1,000,000 place value Read, write and compare whole numbers to 1,000,000 in digits and words Represent mathematical ideas in concrete, pictorial and symbolic forms	 Show the relationship between multiplication and repeated addition Recall multiplication facts up to 12 x 12 Write numbers in expanded notation to 10,000 Estimate sums and differences Multiply two whole numbers that are less than or equal to 10 Multiply one-digit numbers by 10, 100, 1000 Use key words: multiplier, multiple,
6. 7. 8. 9.	Use mathematical vocabulary and language to communicate concepts Add and subtract currency up to \$2 Translate 1-step addition, subtraction and multiplication word problems into a mathematical expression Convert, add and subtract time units Convert to and from 12-hour notation to 24-hour notation	multiplication, multiply, product, double/twice, triple, quadruple, by, of, carrying, borrowing, times, expanded notation, perimeter

For a complete list of the articulation learning outcomes of this course, please refer to the Adult Basic Education in British Columbia's Public Post-Secondary institutions: A Guide to Upgrading in BC's post secondary institutions: An Articulation Handbook 2020/2021 (bctransferguide.ca).

EVALUATION AND ASSESSMENT:

Tests

To progress in this course students must demonstrate a mastery level of achievement (80%) on units tests.

Please see the instructor's syllabus for specific classroom policies related to this course, such as details of evaluation, penalties for late assignments, and use of electronic aids.

EXAM POLICY:

Students must attend all required scheduled exams that make up a final grade at the appointed time and place.

Individual instructors may accommodate for illness or personal crisis. Additional accommodation will not be made unless a written request is sent to and approved by the appropriate Department Head prior to the scheduled exam.

Any student who misses a scheduled exam without approval will be given a grade of "0" for the exam.

COURSE GRADE:

Course grades are assigned as follows:

сом	Completed to defined standard
NCG	No Credit Granted

ACADEMIC POLICIES:

See <u>www.cotr.bc.ca/policies</u> for general college policies related to course activities, including grade appeals, cheating and plagiarism.

COURSE CHANGES:

Information contained in course outlines is correct at the time of publication. Content of the courses is revised on an ongoing basis to ensure relevance to changing educational, employment and marketing needs. The instructor will endeavour to provide notice of changes to students as soon as possible. The instructor reserves the right to add or delete material from courses.