

## Math – Fundamental Level 3 - MATH 030

### Access Education/Upgrading for Academic and Career Entry

### Course Outline

COURSE IMPLEMENTATION DATE:	January 2011
OUTLINE EFFECTIVE DATE:	September 2021
COURSE OUTLINE REVIEW DATE:	March 2026

#### GENERAL COURSE DESCRIPTION:

Math 030 is a Fundamental Level 3 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 multiplication, division, metric, measurement and introductory geometry.

**Program Information:** Math 030 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
<b>Total</b>	<b>30</b>

#### Practicum Hours (if applicable):

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

**Course Outline Author or Contact:**

Leanne Caillier-Smith, MEd

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Signature

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**APPROVAL SIGNATURES:**

Department Head

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Dean of Trades and Technology

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Department Head Signature

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Dean Signature

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Valid from: September 2021 – March 2026

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Education Council Approval Date

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**COURSE PREREQUISITES AND TRANSFER CREDIT:**

**Prerequisites:** None

**Corequisites:** None

**Flexible Assessment (FA):**

Credit can be awarded for this course through FA

Yes

No

Learners may request formal recognition for flexible assessment at the College of the Rockies through one or more of the following processes: External Evaluation, Worksite Assessment, Demonstration, Standardized Test, Self-assessment, Interview, Products/Portfolio, Challenge Exam. Contact an Education Advisor for more information.

**Transfer Credit:** For transfer information within British Columbia, Alberta and other institutions, please visit <http://www.cotr.bc.ca/Transfer>.

Students should also contact an academic advisor at the institution where they want transfer credit.

**Prior Course Number:** N/A

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## 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 3 -  
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.

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## LEARNING OUTCOMES & COURSE TOPICS:

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

<b>Learning Outcome</b> <i>Students will be able to...</i>	<b>Sub-outcomes/skills</b> <i>By achieving this broader outcome, student will demonstrate that they can also...</i>
<ol style="list-style-type: none"><li>1. Evaluate expressions using multiplication and division with carrying and with/without remainder</li><li>2. Divide and multiply whole numbers by 10, 100's, and 1000's.</li><li>3. Translate multiplication and division into mathematical expressions to solve multi-step word problems reflecting real life situations</li><li>4. Demonstrate division by regrouping</li><li>5. Use mathematical vocabulary and language to communicate concepts</li><li>6. Recognize basic metric units</li></ol>	<ul style="list-style-type: none"><li>• Memorize division and multiplication facts</li><li>• Recognize the relationship between X and -/-</li><li>• Estimate products and quotients</li><li>• Solve single and multi-step multiplication and division word problems reflecting real life situations</li><li>• Apply multiplication and division to real life situations</li><li>• Apply or use examples of keywords</li><li>• Define basic prefixes of metric system</li><li>• Calculate area of a square and rectangle</li><li>• Compare and contrast perimeter and area informally, using a drawing or a shape</li></ul>

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](http://bctransferguide.ca) (bctransferguide.ca).

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## EVALUATION AND ASSESSMENT:

<b>Tests</b>
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.

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**COURSE GRADE:**

Course grades are assigned as follows:

<b>COM</b>	Completed to defined standard
<b>NCG</b>	No Credit Granted

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**ACADEMIC POLICIES:**

See [www.cotr.bc.ca/policies](http://www.cotr.bc.ca/policies) for general college policies related to course activities, including grade appeals, cheating and plagiarism.

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**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.