



## MATH-030 – Math – Fundamental Level 3

### College Preparation and Upgrading

**Effective Term & Year:** Fall 2022

**Course Outline Review Date:** 2026-03-01

**Program Area:** Upgrading for Academic and Career Entry

#### 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 Methods:** Directed/Guided Studies

**Credit Type:** ABE Credits

**Credits:** 0

#### Instructional Activity and Hours:

| Activity  | Hours |
|---|-------|
| Classroom, Directed Studies or Online Instruction | 30    |
| Seminar/Tutorials                                 |       |
| Laboratory/Studio                                 |       |
| Practicum/Field Experience                        |       |

|                       |           |
|-----------------------|-----------|
| Co-op/Work Experience |           |
| Other                 |           |
| <b>Total</b>          | <b>30</b> |

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**Course Requisites:**

None

**Flexible Assessment:** Yes

In some cases students may be able to apply for recognition of prior learning outside the classroom. This flexible assessment process provides equivalent course credit. It is a rigorous process that may include external evaluation, worksite assessment, demonstration, standardized test, self-assessment, interview, products/portfolio, and challenge exam, or other measures as appropriate. Tuition fees apply. Contact an education advisor for more information.

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**Course Transfer Credit:**

For information about receiving transfer credit for courses taken at either British Columbia or Alberta institutions, please see <https://www.bctransferguide.ca/> or <https://transferalberta.alberta.ca> . For more transfer credit information, please visit <https://www.cotr.bc.ca/Transfer>

All requests for course transfer credit from institutions in British Columbia or elsewhere should go to the College of the Rockies Enrolment Services office.

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**Textbook 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 <https://textbook.cotr.bc.ca/> for a complete list of the currently required textbooks.*

## Learning Outcomes:

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

### Learning Outcome

*Students will be able to...*

1. Evaluate expressions using multiplication and division with carrying and with/without remainder
2. Divide and multiply whole numbers by 10, 100's, and 1000's.
3. Translate multiplication and division into mathematical expressions to solve multi-step word problems reflecting real life situations
4. Demonstrate division by regrouping
5. Use mathematical vocabulary and language to communicate concepts
6. Recognize basic metric units

### Sub-outcomes/skills

*By achieving this broader outcome, student will demonstrate that they can also...*

- Memorize division and multiplication facts
- Recognize the relationship between X and -/-
- Estimate products and quotients
- Solve single and multi-step multiplication and division word problems reflecting real life situations
- Apply multiplication and division to real life situations
- Apply or use examples of keywords
- Define basic prefixes of metric system
- Calculate area of a square and rectangle
- Compare and contrast perimeter and area informally, using a drawing or a shape

## Course Topics:

The outcomes of this course meet and are consistent with the outcomes prescribed for Computer Studies: Fundamental Level in the Adult Basic Education in British Columbia Colleges – An Articulation Handbook –

<https://www.bctransferguide.ca/wp-content/uploads/2022/08/abeguide2223.pdf>

## Evaluation and Assessments

### Assessment Type: Directed/Guided Studies

| Assessment Type   | % of Total Grade |
|---|------------------|
| To progress in this course students must demonstrate a mastery level of achievement (80%) on units tests. |                  |

## Grade Scheme

| COM                                       | NCG  |
|---|--|
| Completed to the minimum defined standard | No credit granted – less than minimum defined standard |

**Pass requirements:** None

**Exam Attendance:**

Students must attend all scheduled exams at the appointed time and place. Instructors may approve an alternate exam to accommodate an illness or personal crisis. Department heads will consider other written requests. Any student who misses a scheduled exam without prior approval will receive a “0” on the exam.

**Academic Policies:**

College of the Rockies policies related to courses can be found at <https://cotr.bc.ca/about-us/college-policies/> and include the following:

- Policy 2.4.3 Students with Documented Disabilities
- Policy 2.4.4 Student Conduct (plagiarism, other cheating, behavioral misconduct)
- Policy 2.5.8 Academic Performance
- Policy 2.5.3 Grade Appeal
- Policy 2.4.9 Student Concerns Re Faculty

**Course Changes:**

The College of the Rockies updates course outlines regularly to meet changing educational, employment and marketing needs. The instructor will notify students in writing of any updates to this outline during the semester. The instructor reserves the right to revise, add or delete material while meeting the learning outcomes of this course outline.