



Math Preparatory for Industry – MATH 006

Upgrading for Academic and Career Entry

Course Outline

COURSE IMPLEMENTATION DATE: September 2023
OUTLINE EFFECTIVE DATE: September 2023
COURSE OUTLINE REVIEW DATE: March 2028

GENERAL COURSE DESCRIPTION:

This course is designed to strengthen arithmetic and introductory algebra skills to prepare students for academic math and the workforce. Topics will be tailored to the individual to address their current skill level, needs, and goals. This course is intended for students who wish to refresh their math skills for assessment, future math courses, or employment.

Program Information: This course is a non-credit course designed to prepare students for formal math courses and assessments for employment.

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

ABE Credits: None

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

Signature

APPROVAL SIGNATURES:

Department Head

Joy Brown

E-mail: jbrown3@cotr.bc.ca

Dean of Trades and Technology

Dr. Jack Moes

E-mail: jmoes@cotr.bc.ca

Department Head Signature

Dean Signature

EDCO

Valid from: September 2023 - March 2028

Education Council Approval Date

COURSE PREREQUISITES AND TRANSFER CREDIT:

Prerequisites: None

Corequisites: None

Flexible Assessment (FA):

Credit can be awarded for this course through FA

Yes

No

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

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:

Textbooks, worksheets and/or handouts will be supplied.

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:

Depending on the student's learning plan (course topics required), students will:

- perform operations with whole numbers, fractions, decimals, ratios, proportions, and percent;
 - estimate answers to problems and check that answers are reasonable;
 - manipulate formulas and evaluate expressions;
 - solve linear equations;
 - graph linear equations;
 - demonstrate an understanding of statistics by tabulating and graphing data; interpreting graphs; and finding meaning in numerical facts or data;
 - evaluate algebraic expressions using signed rational numbers, absolute value, and the order of operations;
 - solve algebraic equations, formulas, and word problems;
 - perform operations using polynomials;
 - solve equations using powers, roots, and scientific notation, and with the use of a scientific calculator; and
 - solve for missing parts of a triangle and right triangle problems by using the Pythagorean Theorem.
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COURSE TOPICS:

May include:

- Arithmetic and Estimation
 - Perimeter, Area, and Volume
 - Ratio and Proportion
 - Percent
 - Statistics
 - Signed (Rational) Numbers
 - Algebra: Equations
 - Algebra: Polynomials
 - Powers, Roots, and Scientific Notation
 - Graphing
 - Intro to Trigonometry
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EVALUATION AND ASSESSMENT:

Evaluation and Assessment:
Course grades will be assigned as follows: Math Preparatory for Industry is a Non-credit Course. NCC will appear on student transcripts. Exercises assigned in class will be marked in class for student information only.

ACADEMIC POLICIES:

See www.cotr.bc.ca/policies 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 endeavours to provide notice of changes to students as soon as possible. The instructor reserves the right to add material from courses.