



MATH-003 – Math Skills

College Preparation and Upgrading

Effective Term & Year: Fall 2022

Course Outline Review Date: 2027-03-01

Program Area: Upgrading for Academic and Career Entry

Description:

This course is designed to strengthen advanced algebra skills. 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 upcoming math courses, assessments or employment.

Program Information:

This course is a non-credit course designed to prepare students for formal math courses and assessments. Students may enroll in Math Skills 003 for up to 4 weeks. At the end of this time students will be placed in the appropriate course or be advised to write a formal assessment.

Delivery Methods: Directed/Guided Studies

Credit Type: ABE Credits

Credits: 0

Instructional Activity and Hours:

Activity	Hours
Classroom, Directed Studies or Online Instruction	15 hours per week for a maximum of 4 weeks
Seminar/Tutorials	
Laboratory/Studio	
Practicum/Field Experience	

Co-op/Work Experience

Other

Total 60

Course Requisites:

None

Flexible Assessment: No**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.

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:

Worksheets and 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:

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

- solve and graph linear equations and inequalities;
- solve systems of linear equations and inequalities;
- solve operations with polynomials;

- factor polynomials;
- solve rational and radical equations;
- solve and graph linear and quadratic equations;
- graph functions;
- solve right and oblique triangles; and
- solve word problems.

Course Topics:

May include:

- Linear equations and inequalities
- Systems of linear equations and equalities
- Operations with polynomials
- Factoring polynomials
- Rational and radical equations
- Quadratic equations –solve by factoring, completing the square, quadratic equation
- Quadratic equations – factoring
- Problem solving – motion, work, mixture, investment
- Functions – notation, combination, compound, inverse,
- Graphing transformations of functions
- Trigonometry

See instructor's syllabus for the detailed outline of weekly readings, activities and assignments.

Evaluation and Assessments

Assessment Type: Directed/Guided Studies

Assessment Type	% of Total Grade
Course grades will be assigned as follows: Math Skills 003 is a Non-credit Course. NCC will appear on student transcripts after 4 weeks. Exercises assigned in class will be marked in class for student information only.	

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
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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.