

SAMPLE COURSE OUTLINE

Creation date: October 27, 2020

Revision date:

Course Code, Number, and Title:

MATH 1150: Basic and Intermediate Algebra

Course Format:

[Course format may vary by instructor. The typical course format would be:]

Lecture 4.0 h + Seminar 1.0 h + Lab 0.0 h

Credits: 3.0

Transfer Credit: For information, visit bctransferguide.ca

Course Description, Prerequisites, Corequisites:

A one-term course in algebra, covering most topics introduced in high school courses up to and including Principles of Mathematics 11. Content includes real number concepts, algebraic operations, linear equations and inequalities, polynomial and rational expressions, exponents, roots and radicals, quadratic equations, equations in two variables and their graphs. This course is not tied to the high school curriculum but is designed to be a fast-paced review of many topics encountered at high school. The material is covered in greater depth, with an emphasis on speed and proficiency of algebraic manipulation, problem-solving and practical applications. The objective is to up-grade existing knowledge to the level required for college algebra.

May not be used as credit towards a Langara College credential.

Prerequisite(s): A minimum "C" grade in Principles of Mathematics 11, Precalculus 11, Applications of Mathematics 12, or Foundations of Mathematics 12; a minimum "C-" grade in Principles of Mathematics 12, Precalculus 12, or MATH 1101; or permission of the department (based on the Mathematics Diagnostic Test). Applications of Mathematics 11 or Foundations of Mathematics 11 usually do not provide sufficient preparation for MATH 1150. Students with a minimum "C" grade in Principles of Mathematics 11 or Precalculus 11 can enrol in MATH 1150 directly, but those with Applications of Mathematics 11 or Foundations of Mathematics 11 must take the Mathematics Diagnostic Test. Prerequisites are valid for only three years.

Learning Outcomes:

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

- Perform operations with real numbers
- Solve first degree equations and inequalities in one variable
- Polynomials: Add, subtract, multiply, divide and factor polynomial expressions

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- Rational expressions and equations: Add, subtract, divide, multiply and solve equations with rational expressions
- Graphing linear equations: Find the slope, intercepts, and points of a linear equation on a graph
- Solve a system of equations in two variables, graphically and algebraically
- Radical expressions and equations: Add, subtract, and divide radical expressions, solve equations with radical expressions
- Solve right triangles using all trigonometric functions; apply Pythagorean theorem
- Solve quadratic equations by factoring, completing the square and using the quadratic formula
- Set up and solve application problems

Instructor(s): TBA

Office: TBA

Phone: (604) 323-XXXX

Email: TBA

Office Hours: TBA

Textbook and Course Materials:

[Textbook selection may vary by instructor. An example of texts and course materials for this course might be:]

(Required) Textbook: Intermediate Algebra, 5th Edition, Miller/O'Neill/Hyde (McGraw-Hill)
Calculators: Only basic scientific calculators are permitted.

For textbook information, visit https://mycampusstore.langara.bc.ca/buy_courselisting.asp?selTerm=3|8

Note: This course may use an electronic (online) instructional resource that is located outside of Canada for mandatory graded class work. You may be required to enter personal information, such as your name and email address, to log in to this resource. This means that your personal information could be stored on servers located outside of Canada and may be accessed by U.S. authorities, subject to federal laws. Where possible, you may log in with an email pseudonym as long as you provide the pseudonym to me so I can identify you when reviewing your class work.

Assessments and Weighting:

Final Exam 40%

Other Assessments 60%

(An example of other assessments might be:)

Assignments 10%

Quizzes 10%

Midterm I 20%

Midterm II 20%

Grading System:

Specific grading schemes will be detailed in each course section outline.

Information unavailable, please consult Department for details.

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Topics Covered:

[Topics covered may vary by instructor. An example of topics covered might be:]

Information unavailable, please consult Department for details.

As a student at Langara, you are responsible for familiarizing yourself and complying with the following policies:

College Policies:

[E1003 - Student Code of Conduct](#)

[F1004 - Code of Academic Conduct](#)

[E2008 - Academic Standing - Academic Probation and Academic Suspension](#)

[E2006 - Appeal of Final Grade](#)

[F1002 - Concerns about Instruction](#)

[E2011 - Withdrawal from Courses](#)

Departmental/Course Policies:

Information unavailable, please consult Department for details.

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