Welcome to Camosun College!
Camosun College campuses are located on the traditional territories of the Lkwungen and WSÁNEĆ peoples. We acknowledge their welcome and graciousness to the students who seek knowledge here.

# School of Access - Community Learning Partnerships Department <br> MATH 053 Intermediate Mathematics 2 Fall 2020 <br> COURSE OUTLINE 

# The Approved Course Description is available on the College website http://camosun.ca/learn/calendar/current/web/math.html 

## 1. Instructor Information

Instructor: Ramona Scott Phone: email preferred
Office: Online - D2L e-mail: ScottR@camosun.bc.ca

## 2. Intended Learning Outcomes

(complete ABE Fundamental Mathematics learning outcomes at ABE Articulation Handbook website https://www.bccat.ca/pubs/2018-19\ ABE\ Articulation\ Guide.pdf )

At the end of the course, students will be able to:

1. Use mathematics at an ABE Intermediate level with competence
2. Demonstrate knowledge and skills in using the language, principles, and operations of introductory algebra
3. Apply a variety of strategies in solving math-related problems
4. Apply knowledge and skills in introductory algebra to solve problems
5. Use knowledge of introductory algebra as a basis for further study in Advanced-level algebra, math for technology, and other courses and programs

## 3. Required Materials

(a) textbook: Developmental Mathematics, Custom Edition for Camosun College, Marvin Bittinger/Judith Beecher (Content taken from the 9 ${ }^{\text {th }}$ Edition of Developmental Mathematics by the same authors)
(b) scientific calculator (Sharp EL-531X or EL-531W for next level MATH 072 or 135)

## Supplementary Materials

(c) Selected open source math videos: https://sites.camosun.ca/acf-math/mth-053/
(d) Student's Solutions Manual, Judith Penna (for sale in the bookstore; available for reference in the classroom)
(e) Instructor's Solutions Manual, Judith Penna (for reference in the classroom)
(f) website www.mymathlab.com (online text, tutorials, videos, and testing)

## 4. Course Instructions and Content

The course completion time will vary for each student, depending on a number of factors, including your current level of math skills, motivation, learning rate, and how much time you have
to study math, either at the college or at home. Students generally need to spend 5-15 hours of study time per week to complete each math course within 4 months.
(a) before starting unit 1, students must pass a competency test to demonstrate that they can add, subtract, multiply, and divide whole numbers, fractions, and decimals without the use of a calculator - if necessary, use the Arithmetic Review booklet to review these operations before writing the competency test
(b) for each section of the 053 text listed in the table below, read the explanations, study the Examples, do the Margin Exercises, and then work through and check all or at least some of the more difficult odd-numbered problems in the Exercise Set
(c) note that unit 4 includes text chapter 10, 11.1, \& 11.2, and a supplement on exponents
(d) to prepare for the test for each unit, do the Summary and Review Exercises and write the Chapter Test at the end of the chapter, and correct all of your errors
(e) review your test results with the instructor, and proceed to the next unit if you score $75 \%$ or better, or rewrite the unit test if you score less than 75\% (all test scores count)


| $9^{\text {th }} \& 8^{\text {th }}$ ed. | MATH 053 course content |  |
| :---: | :---: | :---: |
| 8.8 | Applications and problem solving with inequalities |  |
|  | Summary and review |  |
|  | Chapter test |  |
|  | Unit 2 test |  |
|  |  |  |
|  | Unit 3 - Graphs of Linear Equations (22 days) |  |
| 9.1 | Graphs and applications of linear equations |  |
| 9.2 | More with graphing and intercepts |  |
| 9.3 | Slope and applications |  |
| 9.4 | Equations of lines |  |
| 9.5 | Graphing using the slope and y-intercept |  |
|  | Summary and review |  |
|  | Chapter test |  |
|  | Unit 3 test |  |
|  |  |  |
|  | Unit 4 - Polynomials: Operations and Factoring (28 days) |  |
| 10.1* | Integers as exponents |  |
| 10.2* | Exponents and scientific notation |  |
|  | * after 10.2, complete supplementary exercises on exponents \#1-25 |  |
| 10.3 | Introduction to polynomials |  |
| 10.4 | Addition and subtraction of polynomials |  |
| 10.5 | Multiplication of polynomials |  |
| 10.6 | Special products |  |
| 10.7 | Operations with polynomials in several variables |  |
| 10.8a | Division of polynomials by a monomial |  |
| 11.1ab | Introduction to common factoring |  |
| 11.2 | Factoring trinomials of the type $x^{2}+b x+c$ |  |
| 11.5cd | Factoring differences of squares |  |
|  | Summary and review |  |
|  | Chapter test |  |
|  | Unit 4 test |  |
|  |  |  |
|  | MATH 053 review |  |
|  | MATH 053 final exam day 105 |  |

## 5. Basis of Student Assessment

(a) Tests $75 \%$ of the course grade is based on the average of all unit final test scores for units 1-4 (including both passing and failing test scores)
(b) Exams $25 \%$ of the course grade is based on the average of all final exam scores (including both passing and failing exam scores)

Note: Students with a record of low attendance OR lack of progress may be restricted from re-registering in Academic and Career Foundations Department courses.
6. Grading System - Standard Grading System http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.5.pdf

| A+ | $90-100 \%$ | B+ | $77-79 \%$ | C+ | $65-69 \%$ | D | $50-59 \%$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| A | $85-89 \%$ | B | $73-76 \%$ | C | $60-64 \%$ | F | $40-49 \%$ |
| A- | $80-84 \%$ | B- | $70-72 \%$ | IP | in progress |  |  |

Temporary Grades
Temporary grades are assigned for specific circumstances and will convert to a final grade according to the grading scheme being used in the course. See Grading Policy at http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.5.pdf
for information on conversion to final grades, and for additional information on student record and transcript notations.

## 7. Learning Support and Services for Students

## ACADEMIC UPGRADING HELP CENTRE (CBA 109 or Ewing 342)

http://camosun.ca/services/help-centres/math.html
Help with coursework, reference \& learning materials library, computers \& printers, quiet testing \& study areas

## 8. College Supports, Services and Policies

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Immediate, Urgent, or Emergency Support
If you or someone you know requires immediate, urgent, or emergency support (e.g. illness, injury, thoughts of suicide, sexual assault, etc.), SEEK HELP. Resource contacts @ http://camosun.ca/about/mental-health/emergency.html or http://camosun.ca/services/sexualviolence/

## College Services

Camosun offers a variety of health and academic support services, including counselling, dental, disability resource centre, help centre, learning skills, sexual violence support \& education, library, and writing centre. For more information on each of these services, visit the STUDENT SERVICES link on the College website at http://camosun.ca/services/

## College Policies

Camosun strives to provide clear, transparent, and easily accessible policies that exemplify the college's commitment to life-changing learning. It is the student's responsibility to become familiar with the content of College policies. Policies are available on the College website at http://camosun.ca/about/policies/. Education and academic policies include, but are not limited to, Academic Progress, Admission, Course Withdrawals, Standards for Awarding Credentials, Involuntary Health and Safety Leave of Absence, Prior Learning Assessment, Medical/Compassionate Withdrawal, Sexual Violence and Misconduct, Student Ancillary Fees, Student Appeals, Student Conduct, and Student Penalties and Fines.

