



**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 - Academic and Career Foundations Department**

**MATH 053 S03 Intermediate Mathematics 2**

**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:** Nicolas Mai      **Phone:** 250-370 – 4481  
**Office:** Interurban: CBA 146      **Email:** [mai@camosun.bc.ca](mailto:mai@camosun.bc.ca)

*The Approved Course Description is available on the College website <http://www.camosun.ca/learn/calendar/current/>*

**Fall Term, September 7 – December 17, 2021**

Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:30	<b>Math S02</b> 24/25/26/37/38/39 52/53/57 CBA 118 Nicolas Mai <a href="mailto:mai@camosun.ca">mai@camosun.ca</a>	Office CBA 146	<b>Math S02</b> 24/25/26/37/38/39 52/53/57 CBA 118 Nicolas Mai <a href="mailto:mai@camosun.ca">mai@camosun.ca</a>	Office CBA 146	Office CBA 146
10:30		<b>Math S03</b> 24/25/26/37/38/39 52/53/57 Portable A, rm 102 Nicolas Mai <a href="mailto:mai@camosun.ca">mai@camosun.ca</a>		<b>Math S03</b> 24/25/26/37/38/39 52/53/57 Portable A, rm 102 Nicolas Mai <a href="mailto:mai@camosun.ca">mai@camosun.ca</a>	<b>Math S03</b> 24/25/26/37/38/39 52/53/57 Portable A, rm 102 Nicolas Mai <a href="mailto:mai@camosun.ca">mai@camosun.ca</a>
11:20		<b>Math S04</b> 24/25/26/37/38/39 52/53/57 CBA 117 Nicolas Mai <a href="mailto:mai@camosun.ca">mai@camosun.ca</a>		<b>Math S04</b> 24/25/26/37/38/39 52/53/57 CBA 117 Nicolas Mai <a href="mailto:mai@camosun.ca">mai@camosun.ca</a>	Office CBA 146
12:20	Office CBA 146	<b>Math S04</b> 24/25/26/37/38/39 52/53/57 CBA 117 Nicolas Mai <a href="mailto:mai@camosun.ca">mai@camosun.ca</a>	Office CBA 146	<b>Math S04</b> 24/25/26/37/38/39 52/53/57 CBA 117 Nicolas Mai <a href="mailto:mai@camosun.ca">mai@camosun.ca</a>	Office CBA 146
3:20	Office CBA 146	Office CBA 146	Office CBA 146	Office CBA 146	Office CBA 146
5:00	Office CBA 146	Office CBA 146	Office CBA 146	Office CBA 146	Office CBA 146

To arrange office meetings, please contact Nicolas at 250-370-4481 or email at [mai@camosun.bc.ca](mailto:mai@camosun.bc.ca)

**2. Intended Learning Outcomes**

(complete ABE Intermediate Mathematics learning outcomes at ABE Articulation Handbook website <https://www.bccat.ca/pubs/2018-19%20ABE%20Articulation%20Guide.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<sup>th</sup> Edition of *Developmental Mathematics* by the same authors)
- (b) *Unit R Arithmetic Review* booklet
- (c) scientific calculator (Sharp EL-531X or EL-531W for next level MATH 072 or 135)

#### Supplementary Materials

- (d) Selected open source math videos: <https://sites.camosun.ca/acf-math/mth-053/>
- (e) *Student's Solutions Manual*, Judith Penna (for sale in the bookstore; available for reference in the classroom)
- (f) *Instructor's Solutions Manual*, Judith Penna (for reference in the classroom)
- (g) website [www.mymathlab.com](http://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)

MATH 053 course content		
Unit R – Arithmetic Review (no calculator) [This is a Separate Booklet]		
R.1	Place value	
R.2	Comparing numbers	
R.3	Rounding numbers	
R.4	Adding and subtracting whole numbers and decimals	
R.5	Multiplying whole numbers and decimals	
R.6	Powers – repeated multiplication	
R.7	Dividing whole numbers and decimals	
R.8	Order of operations	
R.9	Operations with fractions	
R.10	Equivalent fractions	
R.11	Adding and subtracting fractions	
R.12	Multiplying fractions	
R.13	Dividing fractions	
R.14	Converting fractions and decimals	
R.15	Estimation	
	Practice Test	
	Unit R test (no calculator)	
9 <sup>th</sup> & 8 <sup>th</sup> ed. MATH 053 course content		

	<b>Unit 1 – Real Numbers and Algebraic Expressions</b> (20 days)	
7.1	Introduction to algebra	
7.2	The real numbers	
7.3	Addition of real numbers	
7.4	Subtraction of real numbers	
7.5	Multiplication of real numbers	
7.6	Division of real numbers	
7.7	Properties of real numbers	
7.8	Simplifying expressions; order of operations	
	Summary and review	
	Chapter test	
	Unit 1 test	
	<b>Unit 2 – Solving Equations and Inequalities</b> (30 days)	
8.1	Solving equations: the addition principle	
8.2	Solving equations: the multiplication principle	
8.3	Using the principles together	
8.4	Formulas	
8.5	Applications of percent	
8.6	Applications and problem solving	
8.7	Solving inequalities	
<b>9<sup>th</sup> &amp; 8<sup>th</sup> ed.</b>	<b>MATH 053 course content</b>	
8.8	Applications and problem solving with inequalities	
	Summary and review	
	Chapter test	
	Unit 2 test	
	<b>Unit 3 – Graphs of Linear Equations</b> (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	
	<b>Unit 4 – Polynomials: Operations and Factoring</b> (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 $x^2 + bx + c$	
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



### 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/sexual-violence/>

### 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.

## SUPPORTS AND SERVICES FOR STUDENTS

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Camosun College offers a number of services to help you succeed in and out of the classroom. For a detailed overview of the supports and services visit <http://camosun.ca/students/>.

Support Service	Website
Academic Advising	<a href="http://camosun.ca/advising">http://camosun.ca/advising</a>
Accessible Learning	<a href="http://camosun.ca/accessible-learning">http://camosun.ca/accessible-learning</a>
Counselling	<a href="http://camosun.ca/counselling">http://camosun.ca/counselling</a>
Career Services	<a href="http://camosun.ca/coop">http://camosun.ca/coop</a>
Financial Aid and Awards	<a href="http://camosun.ca/financialaid">http://camosun.ca/financialaid</a>
Help Centres (Math/English/Science)	<a href="http://camosun.ca/help-centres">http://camosun.ca/help-centres</a>
Indigenous Student Support	<a href="http://camosun.ca/indigenous">http://camosun.ca/indigenous</a>
International Student Support	<a href="http://camosun.ca/international/">http://camosun.ca/international/</a>
Learning Skills	<a href="http://camosun.ca/learningskills">http://camosun.ca/learningskills</a>
Library	<a href="http://camosun.ca/services/library/">http://camosun.ca/services/library/</a>
Office of Student Support	<a href="http://camosun.ca/oss">http://camosun.ca/oss</a>
Ombudsperson	<a href="http://camosun.ca/ombuds">http://camosun.ca/ombuds</a>
Registration	<a href="http://camosun.ca/registration">http://camosun.ca/registration</a>
Technology Support	<a href="http://camosun.ca/its">http://camosun.ca/its</a>
Writing Centre	<a href="http://camosun.ca/writing-centre">http://camosun.ca/writing-centre</a>

**If you have a mental health concern**, please contact Counselling to arrange an appointment as soon as possible. Counselling sessions are available at both campuses during business hours. If you need urgent support after-hours, please contact the Vancouver Island Crisis Line at 1-888-494-3888 or call 911.

## COLLEGE-WIDE POLICIES, PROCEDURES, REQUIREMENTS, AND STANDARDS

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### **Academic Accommodations for Students with Disabilities**

The College is committed to providing appropriate and reasonable academic accommodations to students with disabilities (i.e. physical, depression, learning, etc). If you have a disability, the [Centre for Accessible Learning](#) (CAL) can help you document your needs, and where disability-related barriers to access in your courses exist, create an accommodation plan. By making a plan through CAL, you can ensure you have the appropriate academic accommodations you need without disclosing your diagnosis or condition to course instructors. Please visit the CAL website for contacts and to learn how to get started: <http://camosun.ca/services/accessible-learning/>

### **Academic Integrity**

Please visit <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.13.pdf> for policy regarding academic expectations and details for addressing and resolving matters of academic misconduct.

### **Academic Progress**

Please visit <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.1.pdf> for further details on how Camosun College monitors students' academic progress and what steps can be taken if a student is at risk of not meeting the College's academic progress standards.

### **Course Withdrawals Policy**

Please visit <http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.2.pdf> for further details about course withdrawals. For deadline for fees, course drop dates, and tuition refund, please visit <http://camosun.ca/learn/fees/#deadlines>.

### **Grading Policy**

Please visit <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.5.pdf> for further details about grading.

### **Grade Review and Appeals**

Please visit <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.14.pdf> for policy relating to requests for review and appeal of grades.

### **Mandatory Attendance for First Class Meeting of Each Course**

Camosun College requires mandatory attendance for the first class meeting of each course. If you do not attend, and do not provide your instructor with a reasonable reason in advance, you will be removed from the course and the space offered to the next waitlisted student. For more information, please see the "Attendance" section under "Registration Policies and Procedures" (<http://camosun.ca/learn/calendar/current/procedures.html>) and the Grading Policy at <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.5.pdf>.

### **Medical / Compassionate Withdrawals**

Students who are incapacitated and unable to complete or succeed in their studies by virtue of serious and demonstrated exceptional circumstances may be eligible for a medical/compassionate withdrawal. Please visit <http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.8.pdf> to learn more about the process involved in a medical/compassionate withdrawal.

### **Sexual Violence and Misconduct**

Camosun is committed to creating a campus culture of safety, respect, and consent. Camosun's Office of Student Support is responsible for offering support to students impacted by sexual violence. Regardless of when or where the sexual violence or misconduct occurred, students can access support at Camosun. The Office of Student Support will make sure students have a safe and private place to talk and will help them understand what supports are available and their options for next steps. The Office of Student Support respects a student's right to choose what is right for them. For more information see Camosun's Sexualized Violence and Misconduct Policy: <http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.9.pdf> and [camosun.ca/sexual-violence](http://camosun.ca/sexual-violence). To contact the Office of Student Support: [oss@camosun.ca](mailto:oss@camosun.ca) or by phone: 250-370-3046 or 250-3703841

### **Student Misconduct (Non-Academic)**

Camosun College is committed to building the academic competency of all students, seeks to empower students to become agents of their own learning, and promotes academic belonging for everyone. Camosun also expects that all students to conduct themselves in a manner that contributes to a positive, supportive, and safe learning environment. Please review Camosun College's Student Misconduct Policy at <http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.5.pdf> to understand the College's expectations of academic integrity and student behavioural conduct.

**Changes to this Syllabus:** Every effort has been made to ensure that information in this syllabus is accurate at the time of publication. The College reserves the right to change courses if it becomes necessary so that course content remains relevant. In such cases, the instructor will give the students clear and timely notice of the changes.