School of Access
Community Learning Partnerships

MATH 052 DS19

Intermediate Mathematics 1

Course Outline – Winter 2018

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

Ω Please note: the College electronically stores this outline for five (5) years only.
*It is **strongly recommended** you keep a copy of this outline with your academic records.*
You will need this outline for any future application/s for transfer credit/s to other colleges/universities.

Instructor Information and Schedule:

Name: Pooja Gupta **Email:** guptap@camosun.ca
Phone: 250-370-4481 **Office:** CBA 149

My class schedule this term:

	Monday	Tuesday	Wednesday	Thursday	Friday
9:30 – 12:20	**In class** Saanich Adult Education Centre	**In class** Songhees Wellness Centre	**In class** Saanich Adult Education Centre	**In class** Songhees Wellness Centre	**Online class** (9:30 – 1:50) CBA 159 **Office time**
12:30 – 2:20	**Online class/ Office time** Meetings by appointments only		**Online class/ Office time** Meetings by appointments only		Department Meetings

Important Dates this Winter term:

January 8 – Term Starts
February 12 – Family Day (College closed)
February 13 to 16 – Reading break (College closed)
February 13 – Foundation Bursaries Deadline to apply for winter 2018
February 23 – T2202A Education Tax Receipts available
March 30 – Good Friday (College closed)
April 2 – Easter Monday (College closed)
April 13 – Last day of instruction
April 16 to 20 – Exams
April 20 - Term Ends

Note: - Please seek help as soon as possible so that I can help you to be successful this term. As emails are accessible from any location, I prefer **emails** to phone calls.

Prerequisite(s)**:** MATH 026**, or** assessment. (http://camosun.ca/learn/calendar/current/web/math.html)

Intended Learning Outcomes

(Complete ABE Intermediate Mathematics learning outcomes at ABE Articulation Handbook website https://www2.gov.bc.ca/assets/gov/education/post-secondary-education/adult-education/abe_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 consumer math (arithmetic, statistics, measurement), geometry, and trigonometry
3. apply a variety of strategies in solving math-related problems
4. apply knowledge and skills in consumer math, geometry, and trigonometry to solve problems
5. use knowledge of consumer math, geometry, and trigonometry as a basis for further study in Intermediate-level algebra and math for trades

Required Materials

(a) textbook: Developmental Mathematics, Custom Edition for Camosun College, Marvin Bittinger/Judith Beecher (Content taken from the 9th Edition of Developmental Mathematics by the same authors)
(b) modules:
1. Arithmetic Review (ABE Intermediate Mathematics module 1), British Columbia
2. Trigonometry (ABE Intermediate Mathematics module 14), British Columbia
(c) Scientific calculator: The Sharp EL 531W model will be the only calculator allowed for this course
(d) Reliable access to the internet
(e) Registration with MyMathLab: http://www.pearsonmylabandmastering.com/northamerica/mathxl/students/get-registered/index.html
(f) Course ID: **gupta74196**

Course Content and Schedule

Self-paced Instructions

The course is designed to be completed in one term. However, it can be completed sooner, depending on a number of factors including the students' beginning level of math-skills, motivation, learning rate, and how much time they can actually study (average 15 to 20 hours per week to complete in 4 months).
Contact your instructor to get permission to write the Final exam. The Final Exam must be written with an invigilator.

If you do not understand something, seek help right away. In addition to online, resources include your family and friends, your instructor, and /or the Math Help Centres.
***Math Help:** You can get free face-to-face tutoring from our instructional assistants in the Math Help Centres/Labs in E342 (Lansdowne) or CBA 109 (Interurban). Hours are posted on the doors and on the website http://camosun.ca/services/help-centres/.

Math 052 course content				
Section	Topic	Suggested Time (Days)	Suggested Date	Suggested Week
Unit R	**Arithmetic Review (no calculator) [This is a Separate Booklet]**			
	Pre-test			
R.1	Place value	1	Jan 8	1
R.2	Comparing numbers	1	Jan 9	1
R.3	Rounding numbers	1	Jan 10	1
R.4	Adding and subtracting whole numbers and decimals	2	Jan 10, 11	1
R.5	Multiplying whole numbers and decimals	1	Jan 12	1
R.6	Powers – repeated multiplication	2	Jan 15, 16	2
R.7	Dividing whole numbers and decimals	2	Jan 17, 18	2
R.8	Order of operations	1	Jan 19	2
R.9	Operations with fractions	1	Jan 22	3
R.10	Equivalent fractions	1	Jan 23	3
R.11	Adding and subtracting fractions	2	Jan 24	3
R.12	Multiplying fractions	1	Jan 25	3
R.13	Dividing fractions	1	Jan 26	3
R.14	Converting fractions and decimals	1	Jan 29	4
R.15	Estimation	1	Jan 30	4
	Post-test			
	Unit R test (no calculator)		Feb 1	4
Unit 1 : Chapter 4	**Percent Notation**			
	Pre-test			
4.1	Ratio and proportion	1	Feb 2	4
4.3	Percent and fraction notation	2	Feb5, 6	5
4.4	Solving percent problems using percent equations	2	Feb 7, 8	5
4.5	Solving percent problems using proportions	2	Feb 9, 12	5/6
4.6	Applications of percent	2	Feb 13, 14	6
4.7	Sales tax, commission and discount	1	Feb 15	6
4.8	Simple interest and compound interest; credit cards	1	Feb 16	6
	Post-Test (timed 3hrs.)			
	Unit 1 Final Test *(timed 3hrs.)*		Feb 19	7

Unit 2 : Chapter 5	**Data, Graphs, and Statistics**			
	Pre-test			
5.1	Averages, medians, and modes	2	Feb 20, 21	7
5.2	Tables and pictographs	1	Feb 22	7
5.3	Bar graphs and line graphs	2	Feb 23, 26	7/8
5.4	Circle graphs	1	Feb 27	8
	Post-Test (timed 3hrs.)			
	Unit 2 Final Test *(timed 3hrs.)*		Mar 1	8
Unit 3: Appendixes	**Measurement**			
	Pre-test			
A	Linear measures: American units and metric units	2	Mar 2, 5	8/9
B	Weight and mass; medical applications	2	Mar 6, 7	9
C	Capacity; medical applications	2	Mar 8, 9	9
D	Time and temperature	2	Mar 12, 13	10
	Post-Test (timed 3hrs.)			
	Unit 3 Final Test *(timed 3hrs.)*		Mar 14	10
Unit 4: Chapter 6	**Geometry**			
	Pre-test			
6.2	Perimeter	2	Mar 15, 16	10
6.3	Area	3	Mar 19, 20, 21	11
6.4	Circles	2	Mar 22, 23	11
6.5	Volume and surface area	3	Mar 26, 27, 28	12
6.8	Similar triangles	2	Mar 29, 30	12
	Post-Test (timed 3hrs.)			
	Unit 4 Final Test *(timed 3hrs.)*		Apr 2	13
Unit 5: Chapter 5	**Trigonometry**			
	No pretest for this unit			
5.1	The right triangle	1	Apr 3	13
5.2	Angles and sides	1	Apr 4	13
5.3	The Pythagorean theorem	1	Apr 5	13
5.4	The tangent ratio	1	Apr 6	13
5.5	Using the tangent ratio	1	Apr 9	14
5.6	The sine and cosine ratios	1	Apr 10	14
5.7	Solving triangles	2	Apr 11, 12	14
	Post-Test (timed 3hrs.)			
	Unit 5 Final Test *(timed 3hrs.)*		Apr 13	14
	MATH 052 Final Pre-test			
	MATH 052 Final Post-test			
	MATH 052 Final Exam *(timed 3hrs.)*		Apr 17	

Grade Calculation[1]: Six Unit Exams worth 75%
Final Exam worth 25%

Grading System :

Percentage	Grade	Grade Point Equivalency
90−100%	A+	9
85−89%	A	8
80−84%	A−	7
77−79%	B+	6
73−76%	B	5
70−72%	B−	4
65−69%	C+	3
60−64%	C	2
50-59%	D	1
<50%	F	0
In Progress	IP	N/A

Recommended Materials or Services to Assist Students to Succeed Throughout the Course

LEARNING SUPPORT AND SERVICES FOR STUDENTS

There are a variety of services available for students to assist them throughout their learning. This information is available in the College Calendar, Registrar's Office or the College web site at:
http://www.camosun.ca

STUDENT CONDUCT POLICY

There is a Student Conduct Policy. It is the student's responsibility to become familiar with the content of this policy. The policy is available in each School Administration Office, Registration, and on the College web site in the Policy Section, or the College web site at:
http://camosun.ca/about/policies/education-academic/e-2-student-services-&-support/e-2.5.pdf

[1] As this is a mastery-based course, the goal for each test is 75% or better. If you scored less than 75% then you will need to rewrite the test before you continue. Note: Tests can only be rewritten once for a total of two times and all test scores are averaged to calculate a final mark

STUDENT GRADING POLICY

A new student grading policy is in effect for students in the School of Access. This information is available in the College Calendar, Registrar's Office or the College web site at:
http://camosun.ca/about/policies/education-academic/e-1-programming-&-instruction/e-1.5.pdf

ACADEMIC PROGRESS POLICY

There is an Academic Progress Policy designed to enhance a learner's likelihood of success. Students should become familiar with the content of this policy. The policy is available in each School Administration Office, Registration, and on the College web site in the Policy Section or the College web site at:
http://camosun.ca/about/policies/education-academic/e-1-programming-&-instruction/e-1.1.pdf