



School of Access
Community Learning Partnerships
MATH 052 D19
Intermediate Mathematics 1
Course Outline – Fall 2016

Instructor: Pooja Gupta
Class Hours: Online

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Office Hours: By Arrangement

Calendar Description

This course covers the first part of ABE Intermediate Math, and provides the practical computational and problem-solving skills required for daily life and for further study in intermediate-level algebra and math for trades. Topics include: proportion, percent, graphs, statistics, measurement, geometry, and trigonometry.

Prerequisite(s): MATH 026, **or** assessment.

<http://camosun.ca/learn/calendar/current/web/math.html>

Required Materials

- (a) Reliable access to the internet
- (b) Registration with MyMathLab: <http://www.pearsonmylabandmastering.com/northamerica/mathxl/students/get-registered/index.html>
- (c) Course ID: **gupta73015**
- (d) scientific calculator (Sharp EL531 is the recommended calculator, and is good through MATH 073)

Course Content and Schedule – Fixed-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 15-20 hours per week to complete in 4 months**).

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 Tutor Center.

Contact your instructor to get permission to write the Final exam. The Final Exam must be written with an invigilator.

Grade Calculation¹: Six Unit Exams worth 75% and a Final Exam worth 25%

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

Intended Learning Outcomes

(complete ABE Intermediate Mathematics learning outcomes at ABE Articulation Handbook website <http://www.aved.gov.bc.ca/abe/docs/handbook.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

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



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MATH 052 course content		
Unit R – Arithmetic Review – 7 Days		Due Date
Pre-test		September 11, 2016
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	Dividing whole numbers and decimals	
R.7	Order of operations	
R.8	Operations with fractions	
R.9	Equivalent fractions	
R.10	Adding and subtracting fractions	
R.11	Multiplying fractions	
R.12	Dividing fractions	
R.13	Converting fractions and decimals	
R.14	Estimation	
Post-Test		September 16, 2016
Unit R Final Test		September 18, 2016
Unit 1 – Percent Notation – 14 Days		Due Date
Pre-test		September 21, 2016
4.1	Ratio and proportion	
4.2	Percent notation	
4.3	Percent and fraction notation	
4.4	Solving percent problems using percent equations	
4.5	Solving percent problems using proportions	
4.6	Applications of percent	
4.7	Sales tax, commission, discount, and interest	
4.8	Simple interest and compound interest; credit cards	
Post-Test		October 2, 2016
Unit 1 Final Test		October 5, 2016

Unit 2 – Data, Graphs, and Statistics – 5 Days		Due Date
Pre-test		October 7, 2016
5.1	Averages, medians, and modes	
5.2	Tables and pictographs	
5.3	Bar graphs and line graphs	
5.4	Circle graphs	
Post-Test		October 10, 2016
Unit 2 Final Test		October 12, 2016
Unit 3 – Measurement – 9 Days		Due Dates
Pre-test		October 14, 2016
A*	Linear measures: American units and metric units (*Appendixes)	
B*	Weight and mass; medical applications	
C*	Capacity; medical applications	
D*	Time and temperature	
Post-Test		October 21, 2016
Unit 3 Final Test		October 23, 2016
Unit 4 – Geometry – 14 Days		Due Dates
Pre-test		October 26, 2016
6.2	Perimeter	
6.3	Area	
6.4	Circles	
6.5	Volume and surface area	
6.8	Similar triangles	
Post-Test		November 6, 2016
Unit 4 Final Test		November 9, 2016
Unit 5 – Trigonometry – 15 Days		Due Dates
Pre-test		<i>No pretest for this unit</i>
5.1	The right triangle	
5.2	Angles and sides	
5.3	The Pythagorean theorem	
5.4	The tangent ratio	
5.5	Using the tangent ratio	
5.6	The sine and cosine ratios	
5.7	Solving triangles	
Post-Test		November 23, 2016
Unit 5 Final Test		November 27, 2016
MATH 052 Final Pre-test		December 4, 2016
MATH 052 Final Post-test		December 11, 2016
MATH 052 Final Exam		December 15, 2016

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>

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>