CAMOSUN

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

MATH 038 Math for General Trades

COURSE OUTLINE (2019 Winter)

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

Instructor Information **See attached sheet**

2. Intended Learning Outcomes

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

- 1. Demonstrate knowledge and skills in using the principles and operations of various math topics such as arithmetic, measurement, graphs, formulas, and geometry
- 2. Apply a variety of strategies in solving math-related problems
- 3. Apply knowledge and skills in various math topics to solve problems related to particular Trades Foundation Programs (except Professional Cook and Electrical programs)
- 4. Use knowledge of various math topics as a basis for further study in Trades Foundation Programs

3. Required Materials

- textbook: Line B, Solve Mathematical Problems, Trades Common Core
- Module: Arithmetic Review (ABE Intermediate Mathematics module 1), British Columbia
- Scientific calculator (Sharp EL-531X or EL-531W) Supplemental Materials
- optional supplementary materials from MATH 023-026
- additional math 038 materials can be found here: https://sites.camosun.ca/acf-math/math-2/

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 work on this course. Students generally need to spend 5–15 hours of study time per week, either at the college or at home, to complete a math course within 4 months.

The table below lists the eleven competencies or chapters in the Line B text that are required for each Trades Foundation Program (except Professional Cook and Electrical). Follow these steps to complete each competency:

- skip the Pre-Test
- study the explanations and examples
- answer and check ALL questions in the order listed in the table below
- ask the instructor for help whenever you need it

To prepare for the Final Test, write the Practice Test and review your results with the instructor.

MATH 038 course content					
Unit R - Arithmetic Review	v (no calcu	lator)			
[This is a Separate Booklet]					
Place value	R.1				
Comparing numbers	R.2				
Rounding numbers	R.3				
Adding and subtracting whole numbers and decimals	R.4				
Multiplying whole numbers and decimals	R.5				
Powers - repeated multiplication	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	R.15				
Practice Test					
Unit R final test (no calculator)					

MATH 038 course content	Line B page #	question #			
Competency B-1 – Wh	Competency B-1 — Whole Numbers				
	5	1-4			
	3	1-5			
	7	1-5			
Competency B-2 – Fractions					
	15	1-4			
	17	1-4			
	20	1-4			
	21	1-5			
	11	1-20			
	23	1-15			
Competency B-3 – Decimals					
	32	1-2			
	33	1-2			
	37	1-5			
	29	1-10			
	38	1-15			

Math 038 course content	Line B	Question				
Competency B-4 – Metric and						
competency b 4 meetic and	46	1-2				
	49	1-6				
	43	1-2				
	50	1-2				
Competency B-5 – Ratio						
Compacting 2 c main	59	1-12				
	55	1-10				
	62	1–10				
Competency B-6	– Percent					
, , , , , , , , , , , , , , , , , , , ,	69	1-4				
	73	1-4				
	67	1-5				
	74	1-5				
Competency B-7 – Po	wers and Roo	ts				
	82	1				
	84	1				
	79	1-3				
	85	1-3				
Competency B-8	Graphs					
	93	1-5				
	96	1-2				
	89	1-5				
	98	A-E				
Competency B-9 -	- Formulas					
	111	1-5				
	105	1-7				
	115	1-5				
Competency B-10 – Perimete						
	125	1-8				
	121	1-8				
	129	1-8				
Competency B-11 – Ang	Competency B-11 – Angles and Triangles					
	142	1-4				
	135	1-6				
	151	1-6				
MATH 038 Practice Test						
MATH 038 Final Test						

5. Basis of Student Assessment

The course grade is either COM (complete) or IP (in progress) or NC (not complete), and is based on the student's score on the Final Test, which covers all of the required units (passing score 75%).

Note: Students with a record of poor attendance OR poor progress may be restricted from re-registering in Academic and Career Foundations Department courses.

6. Grading System Competency-based http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.5.pdf

COM complete IP in progress NC not complete

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/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.

9. MATH 038 Essential Skills (based on learning outcomes, coursework and classroom interaction)

Numeracy: numerical calculation and measurement (arithmetic, metric and imperial measurement, graphs, formulas, geometry)

- Convert between fractions, decimals, and percent
- Add, subtract, multiply and divide rational numbers
- Solve application problems involving arithmetic, metric and imperial measurement, graphs, formulas, and geometry
- Use order of operations
- Use the common metric and imperial units for temperature, length, volume and mass
- Convert between and within metric and imperial units using tables and/or calculators
- Use formulas to solve related application problems
- Read, write, and use ratios and proportions to solve percent and other application problems
- Distinguish between significant digits, accuracy, and precision
- Use a calculator to find squares, cubes, square roots, and cubic roots of whole numbers, fractions, and decimals
- Extract and interpret information from line, bar and circle graphs
- Draw line and bar graphs
- Solve equations, formulas, and related application problems
- Use a protractor, compass and straightedge to measure angles, bisect lines, angles and arcs, find the centre of a circle and construct a perpendicular to a line
- Use the Pythagorean theorem and properties of triangles to find missing sides and angles of triangles

Reading

- Scan for key information
- Read and correctly follow written directions
- Read a full text to understand, learn or evaluate
- Integrate and synthesize information from multiple sources
- Refer to appropriate written (hardcopy or online) resources when experiencing difficulty

Document Use

- Interpret information in graphs or charts
- Use a table of contents or index to find specific information

Writing

- Organize, record and document
- Write notes in point form

Oral Communication

- Follow oral instructions and explanations
- Seek or obtain information from peers and instructor

Working with Others

- Work independently alongside others
- Use appropriate and respectful communication with peers and others
- Receive and apply relevant feedback

Thinking Skills

- Apply prior learning to facilitate effective study and to integrate information from a text with background knowledge from outside the text
- Identify learning strengths
- Identify and set short and long term goals
- · Maintain a personalized learning plan within an individualized educational setting
- Identify key facts and issues related to a problem
- Apply a variety of strategies in solving math-related problems
- Check that answers and solutions to problems are reasonable
- Build strategies for successfully writing math tests
- Prioritize tasks
- Use tools (calendars, agendas, checklists) to help organize tasks and for time management
- Identify, compare, contrast and critically evaluate multiple pieces of information while reading, listening and/or viewing

Digital Technology

- Use a scientific calculator
- May use online tools to communicate and to learn and practice mathematical skills

Continuous Learning

- Deepen understanding of skill strengths and areas in need of improvement
- Recognize preferred learning styles (learning by seeing, hearing or doing)
- Try new ways of doing things
- Continue studies in Foundations Level Trades Programs (except Electrical)

Instructor Information and schedule:

Name: Pooja Gupta Email: guptap@camosun.ca
Phone: 778-677-0150 (text only)

Office: CBA 150(IU campus) / VNFC

My class schedule this term:

	Monday	Tuesday	Wednesday	Thursday	Friday
9:30 – 12:20	In class Saanich Adult Education Centre	Online class/ Office time Meetings by appointments only	In class Saanich Adult Education Centre	Online class/ Office time Meetings by appointments only	
1:00 – 4:00	Online class/ Office time Meetings by appointments only	In class Victoria Native Friendship Centre	Online class/ Office time Meetings by appointments only	In class Songhees Wellness Centre	Meetings

Important Dates this Fall term:

January 7 – Term Starts

February 18 - Family Day (College closed)

February 19 to 22 - Reading break

February 15 - T2202A Education Tax Receipts available

April 13 – Last day of instruction

April 15 to 18 - Exams

April 19 – Good Friday (College closed)

April 22 - Easter Monday (College closed)

April 20 - Term Ends

For more information on important dates go to the following link:

http://camosun.ca/events/important-dates.html?y=2019

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.

The **Deadlines - Fees, Add/Drop and Tuition Refund** information can be found here:

http://camosun.ca/learn/fees/#deadlines