

School of Access Academic and Career Foundations Department

MATH 037 Math for Professional Cook

COURSE OUTLINE

The Approved Course Description is available on the College website

http://camosun.ca/learn/programs/academic-upgrading/what-youll-learn/upgrading.html#tabs-fundamental a

1. Instructor Information

Instructor: Mark Jackson Phone: N/A

Office: Ewing 316 e-mail: <u>JacksonM@camosun.bc.ca</u>

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 arithmetic and measurement
- 2. Apply a variety of strategies in solving math-related problems
- 3. Apply knowledge and skills in arithmetic and measurement to solve problems related to the Professional Cook Foundations Program
- 4. Use knowledge of arithmetic, measurement, and applied problems as a basis for further study in the Professional Cook Foundations Program

3. Required Materials

- Unit R Arithmetic Review booklet
- Applied Math Problems for the Professional Cook Program booklet
- Scientific calculator
- Optional supplementary materials from MATH 023-026
- Optional textbook Line B, Solve Mathematical Problems, Trades Common Core

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.

<u>Before starting</u> the *Applied Math Problems for the Professional Cook Program* booklet, students must pass a competency test to demonstrate that they can add, subtract, multiply, and divide whole numbers, fractions, and decimals <u>without the use of a calculator</u> - if necessary, use the *Arithmetic Review* booklet (Unit R) to review these operations before writing the competency test

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The table below lists the eight competencies or sections in the Professional Cook Applied Problems booklet that are required for the Professional Cook Foundations Program. Follow these steps to complete each competency:

- 1. Answer and check **all** questions in the Professional Cook Applied Problems booklet in the order listed in the table below
- 2. Study the worked solutions sections of the booklet
- 3. 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 037 course content		
Unit R - Arithmetic Review (1	no calcula	tor)
[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 037 course content	Section	Page
Duefassianal Cash Assista	Darah Laura D	
Professional Cook Applied		
[This is a Separate Booklet]	Calculator	permitted.
Applied Problems Topic 1	Whole M	umbore
Problems	- Whole N	1-3
Solutions	1	4-6
Solutions	!	4-0
Applied Problems Topi	c 2– Fract	ions
Problems	2	7-8
Solutions	2	9-11
Applied Problems Top	ic 3– Decin	
Problems	32	12-14
Solutions	33	15-17
Applied Problem		-4-
Metric and Imperial A Problems	neasuremei 4	18-20
Solutions	4	21-24
Solutions	4	Z1-Z4
Applied Problems Topic 5 -	Ratio and	Proportion
Problems	5	25-27
Solutions	5	28-30
Applied Problems Top	ic 6 – Perd	cent
Problems	6	31-33
Solutions	6	34-36
Applied Problem		
Food Cost Percenta	-	
Problems	7	37-40
Solutions	7	41-45
Anniad Deathara To	:-0	: AD
Applied Problems Top		
Problems	8	46-47
Solutions	8	48-49
MATH 037 Practice Test		
MATH 037 Final Test		
matter of the rest	1	

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5. Basis of Student Assessment (Weighting)

The MATH 023 course grade is based on the average of all unit Final Test passing scores.

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

A+	90-100%	B+	77–79%	C+	65-69%
Α	85-89%	В	73–76%	С	60-64%
A –	80-84%	B-	70–72%	ΙP	in progress

7. Learning Support and Services for Students

ACADEMIC UPGRADING HELP CENTRE (CBA 109)

http://camosun.ca/services/help-centres/math.html

Help with coursework, reference & learning materials library, computers & printer, quiet testing & study areas

There are many other Camosun services available to help you succeed in and out of the classroom, including education planning, learning and personal support, campus life, work and housing, and getting around. This information is available at Registration or the College web site http://camosun.ca/services/

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/get-support.html#urgent

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/

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.

A. GRADING SYSTEMS http://www.camosun.bc.ca/policies/policies.php

The following two grading systems are used at Camosun College:

1. Standard Grading System (GPA)

Percentage	Grade	Description	Grade Point Equivalency
90-100	A+		9
85-89	Α		8
80-84	A-		7
77-79	B+		6
73-76	В		5
70-72	B-		4
65-69	C+		3
60-64	С		2
50-59	D		1
0-49	F	Minimum level has not been achieved.	0

2. Competency Based Grading System (Non GPA)

This grading system is based on satisfactory acquisition of defined skills or successful completion of the course learning outcomes

Grade	Description	
СОМ	The student has met the goals, criteria, or competencies established for this course, practicum or field placement.	
DST	The student has met and exceeded, above and beyond expectation, the goals, criteria, or competencies established for this course, practicum or field placement.	
NC	The student has not met the goals, criteria or competencies established for this course, practicum or field placement.	

B. 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://www.camosun.bc.ca/policies/E-1.5.pdf for information on conversion to final grades, and for additional information on student record and transcript notations.

Temporary Grade	Description
I	Incomplete: A temporary grade assigned when the requirements of a course have not yet been completed due to hardship or extenuating circumstances, such as illness or death in the family.
IP	In progress: A temporary grade assigned for courses that are designed to have an anticipated enrollment that extends beyond one term. No more than two IP grades will be assigned for the same course.
CW	Compulsory Withdrawal: A temporary grade assigned by a Dean when an instructor, after documenting the prescriptive strategies applied and consulting with peers, deems that a student is unsafe to self or others and must be removed from the lab, practicum, worksite, or field placement.

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)