



**CAMOSUN COLLEGE**  
**School of Arts & Science**  
**Department of Mathematics & Statistics**

**MATH-143-002**  
**Geometry & Probability for Ed.**  
**Winter 2021**

## COURSE OUTLINE

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The course description is online @ <http://camosun.ca/learn/calendar/current/web/math.html>

$\Omega$  Please note: This outline will not be kept indefinitely. It is recommended students keep this outline for their records, especially to assist in transfer credit to post-secondary institutions.

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### 1. Instructor Information

(a) Instructor	Stephen Benecke		
(b) Office hours	Mon 10:30am, Tue 11:30am, Sun 9:30am in private discord server		
(c) Location	Virtual		
(d) Phone	250-370-3493	Alternative:	604-679-3291
(e) E-mail	<a href="mailto:stephen.benecke@gmail.com">stephen.benecke@gmail.com</a>		
(f) Website	<a href="http://www.mathcatz.com/math/">www.mathcatz.com/math/</a>		

### 2. Intended Learning Outcomes

Upon completion of this course the student will be able to:

1. Use, recognize, and illustrate the various terms associated with polygons and polyhedral.
2. Identify all the reflection and rotational symmetries of a given two-dimensional or three-dimensional figure.
3. Use a geometry set to construct basic geometric shapes, create and manipulate angles and line segments.
4. Correctly use adjectives for angles and work with the corresponding relationships.
5. Measure length, angle size, area and volume in standard units.
6. Use formulas to find measurements of circumference, area, and volume.
7. Apply the Pythagorean Theorem to solve right triangle problems.
8. Create an artistic tessellation to demonstrate how a given figure can tessellate a plane or space.
9. Solve basic probability problems including examples involving permutations and combinations.
10. Explain mathematical concepts at an elementary school level.

### 3. Required Materials

(a) Texts

Elementary Mathematics Volume Two (electronic)

(b) Other

#### 4. Course Content and Schedule

Part I Jan 12 – Jan 26  
Quiz 1 Jan 26  
Part 2 Jan 27 – Feb 24  
Quiz 2 Feb 24  
Part 3 Feb 25- Mar 18  
Quiz 3 Mar 18  
Part 4 Mar 19 – Apr 13  
Quiz 4 Apr 13

#### 5. Basis of Student Assessment (Weighting)

(a) Assignments

Portfolio Assignments 10%

(b) Quizzes

10% each

(c) Oral Quiz

10%

(d) Exams

Final Exam 40%

(e) Other (e.g. Project, Attendance, Group Work)

#### 6. Grading System

Standard Grading System (GPA)

Competency Based Grading System

#### 7. Recommended Materials to Assist Students to Succeed Throughout the Course

#### 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://camosun.ca/about/policies/index.html>

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	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
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
COM	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://camosun.ca/about/policies/index.html> for information on conversion to final grades, and for additional information on student record and transcript notations.

Temporary Grade	Description
I	<i>Incomplete:</i> 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	<i>In progress:</i> 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	<i>Compulsory Withdrawal:</i> 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.