



CAMOSUN COLLEGE
School
Department

ENGR155, 3D Modeling and Design
Winter 2022

COURSE OUTLINE

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.

1. Instructor Information

Instructor	James Bartlett
Office hours	Email as required.
E-mail	jbartlett@camosun.ca

2. Learning Outcomes

Using a 3D Modeling application students will:

- *Create polygonal models.*
- *Apply scene lighting.*
- *Work with Cameras*
- *Define materials and apply texture maps.*
- *Define UV texture coordinates*
- *Set up scenes for rendering.*
- *Create subdivision surfaces.*
- *Understand scanning and 3D printing process.*

3. Required Materials

No extra materials required.

4. Schedule

The following is schedule may change depending on class progress and discretion of the instructor.

Week	Week of	Primary Topic
1	10-Jan	Introduction to Maya
2	17-Jan	Polygonal Modeling
3	24-Jan	Lighting, Cameras and Rendering
4	31-Jan	Materials
5	07-Feb	UV Mapping
6	14-Feb	Opacity and Normal Maps
7	21-Feb	Reading Break
8	28-Feb	Displacement mapping
9	07-Mar	Subdivision Surfaces
10	14-Mar	Scanning & 3D Printing
11	21-Mar	External References
12	28-Mar	Project
13	04-Apr	Project
14	11-Apr	Project

5. Assessment

Assignments 70%
Final Project 30%

Late assignments not accepted.

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

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.