

## COMSC 211, Introduction to Computer Graphics

3 credits, 3 hours lecture, 3 hours lab

### Course Description

The course introduces the concepts of 2D and 3D transformations as well as graphical input and output devices. Labs will focus on creating computer graphics applications which utilize segments, interactive input techniques, user interface design, windowing and clipping, 3D modelling and viewing as well as hidden-line and hidden-surface removal.

### Pre and Co-requisites

COMSC 175 or COMSC 201

### Course Learning Outcomes (CLOs)

*Upon successful completion of the course, the student shall be able to:*

CLO1 design and implement reasonably complex interactive 3D computer graphics applications.

CLO2 use modelling techniques with WebGL

CLO3 use viewing techniques with WebGL

CLO4 use lighting models with WebGL

CLO5 use shading models and shaders with WebGL

CLO6 use texturing with WebGL

CLO7 use rendering techniques with WebGL

### Evaluation

Assessment Type	Percentage
Quizzes and projects	20%
Lab Assignments	15%
Midterm Exam	20%
Final Exam	45%

### Course Completion Requirements

Minimum passing mark of 50% or D is required.

## Grading Scale

4.0 Grade Scale	Alpha Grade	Percentage Grade
4.0	A+	93-100
4.0	A	85-92.9
3.7	A-	80-84.9
3.3	B+	77-79.9
3.0	B	74-76.9
2.7	B-	70-73.9
2.3	C+	67-69.9
2.0	C	64-66.9
1.7	C-	60-63.9
1.3	D+	55-59.9
1.0	D	50-54.9
0.0	F	0-49.9

## Land Acknowledgement

We respectfully acknowledge that Keyano College is located on Treaty 8 territory, the traditional & contemporary meeting grounds and gathering places of the Denesuline, Cree and Métis Peoples of this region. Our name, Keyano (kiyânaw in nêhiyawêwin - Cree language), translates to “we, us, our” and speaks to the connection we have as a community and our commitment to being in right relationships with the First Peoples of these lands.

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