COMSC175, Introduction Foundation Computation II

3 credits, 3 hours lecture, 3 hours lab

Course Description

COMSC 175 continues the study of algorithmic problem solving undertaken in COMSC 174. Emphasis will be on higher-level concepts such as functional design and object-oriented programming. Human interface design and construction will also be discussed. Programming exercises will be selected from application areas relevant to the program of study of enrolled students

Pre and Co-requisites

Prerequisite: COMSC 174

Course Learning Outcomes (CLOs)

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

- *CLO1: Attain proficiency in scientific programming and data visualization (Python is the supporting environment)*
- *CLO2: Understand relevant terminology and proper use of vocabulary related to algorithms, programming, and design*
- *CLO3: Express real-world problems precisely*
- *CLO4: Solve these problems using efficient algorithms developed in python by constructing a feasible solution and expressing that solution as a program.*

Evaluation

Assessment Type	Percentage
Quizzes	20%
Midterm	25%
Final Exam	35%
Assignments	20%
Total	**100%**

Course Completion Requirements

Minimum passing mark of D or 50% 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.

Course Outline Review Date: June 2025