COEN 244 - Programming Methodology II
Winter 2022

Section	Date	Time	Location	Office Hours	
Lec S	Monday-Wednesday	13:15 - 14:30	S-MB1.210		
Tutorials				Tutorial Instructor	Tutorial Start Date
S SA	Thursday	16:15 - 17:55	S-H907		January 09, 2023
S SB	Thursday	16:15 - 17:55	S-H847		January 09, 2023
S SC	Friday	16:15 - 17:55	S-H917		January 09, 2023
S SD	Friday	16:15 - 17:55	S-H843		January 09, 2023
S SG	Thursday	16:05 - 17:45	S-H521		January 09, 2023

Course Website
The course material will be available in Moodle.

1. Brief course description:

2. Course Details

2.1 Prerequisite
COEN 243

2.2 This course is a prerequisite to

2.3 Text Book and additional course materials
Suggested Textbook:
Instructor's lecture notes: will be posted in the Moodle course management site
Software Use:

2.4 Knowledge base for engineering prerequisites:

2.5 Course Syllabus

2.6 Grading Scheme and Policy

3. Important dates

January 23, 2023 - last day to drop winter-term courses, without paying fees. (DNE deadline).
April 18, 2023 - last day to DISC winter-term courses using the Student Information System.
April 17, 2023 - last day of classes.

4. Accreditation Unit (AUs)

Course Type	Math	Natural science	Complementary studies	Engineering science	Engineering design	Total AU
Compulsory				75%	25%	100%
				39.0	13.0	52.0

5. Graduate Attribute Curriculum Map - Skills to utilize/learn in the class

Graduate Attributes	Indicators	Level of Knowledge
A knowledge base for engineering	Knowledge base in specific domain (KB-3)	Intermediate
Problem analysis	Problem identification and formulation (PA-1)	Intermediate
	Problem solving (PA-3)	Intermediate
	Analysis (uncertainty and incomplete knowledge) (PA-4)	Intermediate
Design	Define the objective (DE-1)	Introductory
	Idea generation and selection (DE-2)	Introductory
	Detailed design (DE-3)	Introductory
	Validation and implementation (DE-4)	Introductory

6. Course Learning Outcomes

By the end of this course students will be able to:

Learning outcome	Attribute / Indicators
Define the principles of computer-based problem solving and programming.	KB-3, PA-3, DE-4
Describe programming concepts and language constructs in C++.	KB-3, PA-1, DE-3
Apply C++ concepts including control statement, repetition statement, arrays, classes and objects, pointers, and references.	KB-3, PA-1, PA-3, PA-4, DE-1, DE-2
Demonstrate skills in debugging and testing existing C++ programs with the objective of finding faults and improving code quality.	KB-3, PA-1, PA-3, PA-4, DE-4
Analyze problems using the problem analysis techniques described in the course.	PA-1, PA-4
Demonstrate proficiency in implementing C++ solutions using proper C++ language constructs.	PA-1, PA-4, DE-4

7. Disclaimer

In the event of extraordinary circumstances beyond the University's control, the content and/or evaluation scheme in this course is subject to change.

8. On Campus resources

HEALTH SERVICES	COUNSELLING AND PSYCHOLOGICAL SERVICES
An on-campus health clinic and health promotion center with nurses and doctors. SGW 514-848-2424 ext. 3565 LOY 514-848-2424 ext. 3575	Counsellors (licensed mental health professionals) work with students to address their mental health and wellbeing needs. SGW 514-848-2424 ext. 3545 LOY 514-848-2424 ext. 3555
ACCESS CENTRE FOR STUDENTS WITH DISABILITIES Supports students with a variety of disability conditions (including temporary disabilities arising from illness or injury). Students receive academic support for their educational experience at Concordia. acsdinfo@concordia.ca 514-848-2424 ext. 3525	**SEXUAL ASSAULT RESOURCE CENTRE** Provides confidential and non-judgemental support and services to students, staff and faculty of all genders and orientations affected by sexual violence and/or harassment. Jennifer Drummond, Coordinator jennifer.drummond@concordia.ca sarc@concordia.ca 514-848-2424 ext. 3353
STUDENT SUCCESS CENTRE Support network from first-year to graduation. You'll find one-on-one tutors, study groups, workshops as well as learning and	**DEAN OF STUDENTS** Supports students to enhance their Concordia experience by

career advisors. 514-848-2424 ext. 3921	engaging in student life outside the classroom. Terry Kyle, Manager deanofstudents.office@concordia.ca SGW 514-848-2424 ext. 3517 LOY 514-848-2424 ext. 4239
ABORIGINAL STUDENT RESOURCE CENTRE An on-campus resource for First Nations, Métis and Inuit students that helps them make the most of the many resources available at the university. Orenda Konwawennotion Boucher-Curotte, Coordinator orenda.boucher@concordia.ca 514-848-2424 ext. 7327	**INTERNATIONAL STUDENTS OFFICE** Supporting international students with immigration documents, health insurance, social events, and workshops. iso@concordia.ca 514-848-2424 ext. 3515
STUDENT ADVOCACY OFFICE Advocating for students facing charges under the Academic Code of Conduct or the Code of Rights and Responsibilities. studentadvocates@concordia.ca 514-848-2424 ext. 3992	**MULTI-FAITH & SPIRITUALITY CENTRE** Provides a home for all those wishing to celebrate the human spirit in the widest sense of the word, through programs, events and a quiet space for reflection. Ellie Hummel, Coordinator mfsc@concordia.ca 514-848-2424 ext. 3593
CAMPUS SECURITY Ensures the safety of our members and campus property through prevention, surveillance, intervention, training, and education. Provides emergency medical services. security@concordia.ca 514-848-3717 (dial 1 for urgent situations; dial 2 for non-urgent situations)	**CONCORDIA UNIVERSITY STUDENT PARENTS CENTRE** An accessible space for student parents to study, share interests and develop a support network. Sumaiya Gangat, Coordinator cusp@concordia.ca 514-848-2424 ext. 2431

9. Academic Honesty and Code of Conduct

Violation of the Academic Code of Conduct in any form will be severely dealt with. This includes copying (even with modifications) of program segments. You must demonstrate independent thought through your submitted work. The Academic Code of Conduct of Concordia University is available at:
http://www.concordia.ca/students/academic-integrity/offences.html
http://provost.concordia.ca/academicintegrity/plagiarism/

It is expected that during class discussions and in your written assignments you will communicate constructively and respectfully. Sexist, racist, homophobic, ageist, and ablest expressions will not be tolerated.