

CONCORDIA UNIVERSITY
DEPARTMENT OF COMPUTER SCIENCE
AND SOFTWARE ENGINEERING

COMP 6411-AA:
Comparative Study of Programming Languages

Course Outline - Summer term 2021

May 10, 2021

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1 General information

Course: COMP 6411: Comparative Study of Programming Languages.
Section AA, Summer term, 2021.

Instructor: **Dr. Constantinos Constantinides, *P.Eng.***
(constantinos.constantinides@concordia.ca)

Office hours: REMOTE: Tuesday, Wednesday 13:30 - 14:30, or by appointment.

Lectures and location: REMOTE.

Programmer on Duty: REMOTE: AminRanjbar, Monday, 14:30 - 20:30.

Course website: <http://users.encs.concordia.ca/~cc/comp6411>

2 Calendar course description and enrollment requirements

COMP 6411 Comparative Study of Programming Languages (4 credits). Comparison of several high-level programming languages with respect to application areas, design, efficiency, and ease of use. The selected languages will demonstrate programming paradigms such as functional, logical, and scripting. Static and dynamic typing. Compilation and interpretation. Advanced implementation techniques. A project is required.

3 Lectures

Please note that there are no live lectures. All lectures will be recorded and posted on the course website.

4 Office hours

I will hold office hours using a zoom channel, the credentials of which I will send out at the beginning of term. This will be on a first-come-first-served basis and I will maintain a waiting room for the

channel so that meetings will be 1-on-1. If you wish to see me as a group, then the first person to join the channel can give me the rest of the names and I will allow everybody in. Additionally, you can email me for a zoom appointment if this time is not convenient to you.

5 Programmer on Duty (POD)

A Teaching Assistant (TA) will hold online POD sessions. Our TA will email you the necessary zoom channel credentials.

6 Material and schedule

There is no mandatory textbook for the course. Lecture notes (accompanied by pre-recorded lecture sessions) will be made available on the course website. A tentative schedule is shown below:

Week of...	Coverage
May 10	Logic programming with Prolog
May 17	Logic programming with Prolog
May 24	Functional programming with Common Lisp
May 31	Functional programming with Common Lisp
Jun 7	Functional programming with Common Lisp
Jun 14	Procedural programming with C
Jun 21	Procedural programming with C

6.1 Important dates

Note that all dates are tentative.

10 May : Assignment 1 posted.

21 May : Assignment 1 due.

24 May : Assignment 2 posted.

11 June : Assignment 2 due.

14 June : Assignment 3 posted.

25 June : Assignment 3 due

7 Assessment

7.1 Policy

The course will be assessed by coursework only.

7.2 Organization

For your coursework you will work in teams. If you can form a team of 4, please assign a team leader who must send me your names and id's. Otherwise, we will place you into a team. We need to have this information by Wednesday 12 May, at 23:00. Please note that we cannot provide you with the names or email information of your classmates. **Please do not ask for exceptions on any aspect of the organization.** Team formations will be announced on the course website. Detailed instructions on the organization of each assignment will be included with each announcement.

7.3 Submitting coursework

You team leader must submit all coursework electronically on behalf of the team. Please make sure you include all names and id's of those team members who have contributed to the assignment. The electronic submission system is available at <https://fis.encs.concordia.ca/eas/>

7.4 Receiving assessed coursework

Once a coursework is assessed, our Teaching Assistant will send an email to the leader of your team with a detailed marking report.

7.5 Disputes of grades

If you wish to dispute a mark you have received in an assignment, your team leader should email me within three business days of this being returned to you. Describe in detail why you think more credit should be given, comparing your solution to the one we will make available to you on the course website. We will review your concern and give you a response. Our response will be final, i.e. we will not iterate over this.

8 Communication

All announcements will be made through the course website. If you wish to contact the instructor via email, please include the course number and section in the subject line and make sure you sign your message with your complete name and Concordia id.

9 Rights and responsibilities

The most common offense under the Academic Code of Conduct is plagiarism which the Code defines as “the presentation of the work of another person as one’s own or without proper acknowledgment.” This could be material copied word for word from books, journals, internet sites, professor’s course notes, etc. It could be material that is paraphrased but closely resembles the original source. It could be the work of a fellow student, for example, an answer on a quiz, data for a lab report, a paper or assignment completed by another student. It might be a paper purchased through one of the many available sources. Plagiarism does not refer to words alone - it can also refer to copying images, graphs, tables, and ideas. “Presentation” is not limited to written work. It also includes oral presentations, computer assignments and artistic works. Finally, if you translate the work of another person into French or English and do not cite the source, this is also plagiarism. In Simple Words:

Do not copy, paraphrase or translate anything from anywhere without saying where you obtained it!

(Source: The Academic Integrity Website:

<https://www.concordia.ca/students/academic-integrity/plagiarism.html>)

In the case where we have reasonable to grounds to suspect a plagiarism offense, we will submit an Incident Report to the Dean per item 17.10.3.25 of the Academic Integrity and the Academic Code of Conduct (<https://www.concordia.ca/academics/undergraduate/calendar/current/17-10.html>). In the interim, and until there is a final outcome of any proceedings under this Code, there will be a pending notation in your transcript.

10 Services and policies

- Counselling and Psychological Services: <http://www.concordia.ca/offices/cdev.html/>
- Concordia Library Citation and Style Guides:
<http://library.concordia.ca/help/howto/citations.html>
- Student Advocacy Office: <http://www.concordia.ca/offices/advocacy.html>
- New Student Program: <http://newstudent.concordia.ca/>
- Centre for Gender Advocacy: <http://genderadvocacy.org/about-us/the-centre/>
- Accessibility services:
<http://www.concordia.ca/students/accessibility.html>
- Student Success Centre: <http://www.concordia.ca/students/success.html>
- Academic Integrity: <http://www.concordia.ca/students/academic-integrity.html>
- Financial Aid and Awards Office: <http://www.concordia.ca/offices/faao.html>
- Health Services: <http://www.concordia.ca/students/health.html>
- Official Policies: <http://www.concordia.ca/about/policies.html>