HOME   OUTLINE   LECTURE NOTES   ASSIGNMENTS

Winter 2020 -- Department of Computer Science, University of Western Ontario

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CS3342 - Organization of Programming Languages

Course description (course web site)

The course discusses fundamental concepts of programming languages, such as syntax, semantics, names, scopes, bindings, control flow, types, subroutines, control and data abstractions. While various languages can be very different in terms of syntax and semantics, they have many common design concepts. A thorough study of these concepts makes it easier to learn new languages and helps choosing a suitable language for a given task or making better use of a language. In addition to imperative programming, functional and logic programming are also discussed, together with the most widely used such languages, Scheme and Prolog.

Prerequisites

- Computer Science 2211A/B or Software Engineering 3313A/B

Unless you have either the prerequisites for this course or written special permission from your Dean's Office to enrol in it, you will be removed from this course and it will be deleted from your record.
This decision may not be appealed. You will receive no adjustment to your fees in the event that you are dropped from a course for failing to have the necessary prerequisites.

Instructor

- Prof. Lucian Ilie, MC378, e-mail: cs3342@uwo.ca
  - Office hours: Thursdays, 12:30 - 2:30pm, MC378

Class time

- Wednesdays, 3:30 - 5:30pm, SSC-2050
- Thursdays, 10:30 - 11:30am, MC-110

Textbook (required)

- Michael L. Scott, *Programming Language Pragmatics, 4th ed.,* Morgan Kaufmann (2015), ISBN: 978-0124104099.

Languages

- Scheme - functional programming
- Prolog - logic programming

Evaluation (tentative due dates - the date in the assignment supersedes this) -- Assignments will be available on OWL

- **Assignments -- best 3 out of 4 will be considered**
  - Assignment 1 (10%) - due Feb. 4
  - Assignment 2 (10%) - due Feb. 25

- Assignment 3 (10%) - due Mar. 17
- Assignment 4 (10%) - due Mar. 24
- **Exams - In order to pass the course you MUST PASS THE EXAMS, that is, your average for the two exams should be at least 50%. Otherwise, this average will be your final grade for the course.**
  - Midterm Exam (31%) - Wednesday, Mar. 4, 3:30 - 5:30pm, room TBA
    - Makeup Midterm - Friday, Mar. 6, time and place TBA
  - Final Exam (39%) - TBA
    - Makeup Final - Monday, May 4, 2020, 10:00am, WSC 55

- **Penalties**
  - There is no penalty for late submissions up to three days (as indicated on each assignment). After that the late work is no longer accepted.
- **Self-reported absences**
  - Self-reported absences cannot be used for midterm or final exams (midterm weight is over 30% and they can never be used for final exams).
  - Self-reported absences can be used to extend the deadline of an assignment. In this case the deadline is extended by up to two days, there is still no penalty for the assignment, but, for the assignment to be considered, you must:
    - Submit the assignment by e-mail to: cs3342@uwo.ca
    - Clearly mark "SELF-REPORTED ABSENCE" at the beginning of the homework.
    - This is in addition to the usual procedure for self-reporting absences.
- **Missed homework or exam**
  - You cannot miss more than one assignment out of four.
  - If you miss the midterm and the midterm makeup (with legitimate reason), the midterm weight is moved to the final exam.

TAs

- TBA

TAs office hours

- TBA

Assignments

- The assignments will consist of a set of exercises related to the material covered in class. The solutions for the exercises should be neatly written or typed.
- All assignments will be made available on the course web site. The availability of assignments will be announced on class and/or via e-mail. Students are responsible for checking their e-mail on a regular basis.

Appeals of Assignment Marks

- Appeals of assignment marks should be addressed to the T.A. first. If you and the T.A. cannot agree, then the T.A. will discuss the situation with the lecturer.
- Appeals must occur within 1 week from the first day that the marked assignments were made available to students. After that 1 week period has gone by, no more appeals will be considered.

Computing Facilities

Each student will be given an account on the Computer Science Department senior undergraduate computing facility, GAUL. In accepting the GAUL account, a student agrees to abide by the department's; Rules of Ethical Conduct.

Adherence to Deadlines

There is no penalty for late submissions up to three days. After that the late work is no longer accepted.

Accommodation and Accessibility

If you are unable to meet a course requirement due to illness or other serious circumstances, you must seek approval for the absence as soon as possible. Approval can be granted either through a self-reporting of absence or via the Dean's Office/Academic Counselling unit of your Home Faculty. If you are a Science student, the Academic Counselling Office of the Faculty of Science is located in NCB 280, and can be contacted at scibmsac@uwo.ca.
For further information, please consult the university's policy on academic consideration for student absences: https://www.uwo.ca/univsec/pdf/academic_policies/appeals/Academic_Consideration_for_absences.pdf.
If you miss the Final Exam, please contact your faculty's Academic Counselling Office as soon as you are able to do so. They will assess your eligibility to write the Special Exam (the name given by the university to a makeup Final Exam). You may also be eligible to write the Special Exam if you are in a "Multiple Exam Situation" (see http://www.registrar.uwo.ca/examinations/exam_schedule.html).

Academic Policies

The website for Registrarial Services is http://www.registrar.uwo.ca.
In accordance with policy, http://www.uwo.ca/its/identity/activatenonstudent.html, the centrally administered e-mail account provided to students will be considered the individual's official university e-mail address. It is the responsibility of the account holder to ensure that e-mail received from the University at his/her official university address is attended to in a timely manner.
No cheat-sheets (or any other sheets), books, or electronic devices are permitted during exams (midterm and final).
Scholastic offences are taken seriously and students are directed to read the appropriate policy, specifically, the definition of what constitutes a Scholastic Offence, at the following Web site:
http://www.uwo.ca/univsec/pdf/academic_policies/appeals/scholastic_discipline_undergrad.pdf.
All required papers may be subject to submission for textual similarity review to the commercial plagiarism detection software under license to the University for the detection of plagiarism. All papers submitted for such checking will be included as source documents in the reference database for the purpose of detecting plagiarism of papers subsequently submitted to the system. Use of the service is subject to the licensing agreement, currently between The University of Western Ontario and Turnitin.com (http://www.turnitin.com).
Computer-marked multiple-choice tests and exams may be subject to submission for similarity review by software that will check for unusual coincidences in answer patterns that may indicate cheating.

Support Services

Please contact the course instructor if you require lecture or printed material in an alternate format or if any other arrangements can make this course more accessible to you. You may also wish to contact Student Accessibility Services (SAS) at 661-2147 if you have any questions regarding accommodations.
The policy on Accommodation for Students with Disabilities can be found here:
https://www.uwo.ca/univsec/pdf/academic_policies/appeals/Academic%20Accommodation_disabilities.pdf.
The policy on Accommodation for Religious Holidays can be found here:
http://www.uwo.ca/univsec/pdf/academic_policies/appeals/accommodation_religious.pdf.
Students who are in emotional/mental distress should refer to Mental Health@Western
(http://www.health.uwo.ca/mental_health) for a complete list of options about how to obtain help.
Additional student-run support services are offered by the USC, http://westernusc.ca/services.