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Winter 2022 -- Department of Computer Science, University of Western Ontario

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. In addition to imperative programming, functional and logic programming are also discussed, together with the most widely used such languages, Scheme and Prolog.

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.

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
 - Office hours: **Zoom**, Thursdays, 11:30 - 1:30
 - Check OWL announcements for Zoom meeting information
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Class time

- Wednesdays, 3:30 - 5:30pm
 - Thursdays, 10:30 - 11:30am
 - **Lectures: Zoom: live classes and posted videos**
 - Check OWL announcements for Zoom meeting information
 - Videos will be posted in the Lecture Notes section (see top)
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Textbook (required)

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

- [Scheme](#) - functional programming
 - [Prolog](#) - logic programming
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Evaluation -- Assignments will be available in OWL

- Assignments -- best 3 out of 4 will be considered; these due dates are tentative - the date on the assignment supersedes this:
 - Assignment 1 (10%) - due Feb. 10
 - Assignment 2 (10%) - due Feb. 18
 - Assignment 3 (10%) - due Mar. 24
 - Assignment 4 (10%) - due Apr. 7
- Exams - written format, closed book, no cheat sheet, no devices
 - Midterm Exam (31%): Wednesday, Mar. 2, 3:30 - 5:30pm (to be determined if it is in person or online)
 - Material required for midterm: everything taught before reading week
 - Final Exam (39%): TBA
 - Material required for final: everything
 - Final makeup: TBA

Evaluation rules -- read carefully

- **Exam passing rule**
 - In order to pass the course you must pass the exams, that is, your weighted average grade for the two exams should be at least 50/100. Otherwise, your final grade for the course will be the weighted average of the exam grades.
- **Missed homework or exam**
 - There is no midterm makeup. In case of missed midterm, you need approved accommodation from the Dean's office for the weight of the midterm to be moved to the final. All documentation required for absences that are not covered by the Self-Reported Absence Policy must be submitted to the Academic Counselling office of a student's Home Faculty.
 - I suggest that you complete at least 3 assignments as it is easier to get higher grades on assignments than exams. However, missed assignments automatically (that is, no accommodation needed) get their grade from the exams as follows: assignments 1 and 2 get the grade of the midterm, and assignments 3 and 4 get the grade of the final. A submitted assignment will also get the grade of the corresponding exam, if the latter is higher. This way everyone will have four assignment grades. After that, the best three out of four are considered.
- **Self-reported absences**
 - To simplify things, I give two-day penalty-free extension on all assignments (as indicated in each assignment). This is the equivalent of everyone having a self-reported absence. Self-reported absences cannot be used to add an additional extension.
 - Self-reported absences cannot be used for midterm or final exam (midterm weight is over 30% and they can never be used for final exams).
- **Mark inquiries**
 - The goal is to make grading as objective and consistent as possible. The assignments and exams will have detailed evaluation schemes. For consistency, the same question will be graded,

whenever possible, by the same grader for all students.

- Inquiries for marks will be addressed first to the TA who graded the question. In case of disagreement, the complaint will be resolved by the instructor. In case of multiple complaints for one exam from a student, the entire exam of that student will be regraded by the instructor.
 - Mark inquiries can be made only within one week from the day the marks are made available.
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TAs and office hours

- SeyedMosen Hosseini (shosse59@uwo.ca) - in charge of the course email: cs3342@uwo.ca. All questions are to be sent to this email address. For long questions, please attend the office hours.
 - Caroline Strickland (cstrick4@uwo.ca) - TBA
 - Kirk Vander Ploeg (kvande85@uwo.ca) - TBA
 - Marlin Manka (mmanka@uwo.ca) - TBA
 - Muhammad Zakar (mzakar@uwo.ca) - TBA
 - Shi Chang (schan543@uwo.ca) - TBA

 - Office hours
 - Office hours will be on **Zoom**
 - Check OWL announcements for Zoom meeting information
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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 in OWL. The availability of assignments will be announced by OWL messages. Students are responsible for checking the course OWL site and their e-mail on a regular basis.
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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.
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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](#).

Student Absences

Academic Consideration for Student Absences Students who experience an extenuating circumstance (illness, injury or other extenuating circumstance) sufficiently significant to temporarily render them unable to meet academic requirements may submit a request for academic consideration through the following

routes:

- (i) Submitting a Self-Reported Absence (SRA) form provided that the conditions for submission are met. To be eligible for a Self-Reported Absence:
 - an absence must be no more than 48 hours
 - the assessments must be worth no more than 30% of the student's final grade
 - no more than two SRAs may be submitted during the Fall/Winter term
- (ii) For medical absences, submitting a Student Medical Certificate (SMC) signed by a licensed medical or mental health practitioner to the Academic Counselling office of their Faculty of Registration.
- (iii) Submitting appropriate documentation for non-medical absences to the Academic Counselling office in their Faculty of Registration.

Note that in all cases, students are required to contact their instructors within 24 hours of the end of the period covered, unless otherwise instructed in the course outline.

Students should also note that individual instructors are not permitted to receive documentation directly from a student, whether in support of an application for consideration on medical grounds, or for other reasons. All documentation required for absences that are not covered by the Self-Reported Absence Policy must be submitted to the Academic Counselling office of a student's Home Faculty.

For the policy on Academic Consideration for Student Absences - Undergraduate Students in First Entry Programs, see: https://www.uwo.ca/univsec/pdf/academic_policies/appeals/accommodation_illness.pdf and for the Student Medical Certificate (SMC), see: http://www.uwo.ca/univsec/pdf/academic_policies/appeals/medicalform.pdf.

Religious Accommodation When a course requirement conflicts with a religious holiday that requires an absence from the University or prohibits certain activities, students should request accommodation for their absence in writing at least two weeks prior to the holiday to the course instructor and/or the Academic Counselling office of their Faculty of Registration. Please consult University's list of recognized religious holidays (updated annually) at <https://multiculturalcalendar.com/ecal/index.php?s=c-univwo>.

Absences from Final Examinations If you miss the Final Exam, please contact the Academic Counselling office of your Faculty of Registration as soon as you are able to do so. They will assess your eligibility to write the Special Examination (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" (e.g., more than 2 exams in 23-hour period, more than 3 exams in a 47-hour period).

If a student fails to write a scheduled Special Examination, the date of the next Special Examination (if granted) normally will be the scheduled date for the final exam the next time this course is offered. The maximum course load for that term will be reduced by the credit of the course(s) for which the final examination has been deferred. See the Academic Calendar for details (under Special Examinations).

Accommodation and Accessibility

Accommodation Policies Students with disabilities work with Accessible Education (formerly SSD), which provides recommendations for accommodation based on medical documentation or psychological and cognitive testing. The policy on Academic Accommodation for Students with Disabilities can be found at: https://www.uwo.ca/univsec/pdf/academic_policies/appeals/Academic_Accommodation_disabilities.pdf.

Academic Policies

The website for Registrarial Services is <http://www.registrar.uwo.ca>.

In accordance with policy, https://www.uwo.ca/univsec/pdf/policies_procedures/section1/mapp113.pdf, 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.

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.

Support Services

Please visit the Science & Basic Medical Sciences Academic Counselling webpage for information on adding/dropping courses, academic considerations for absences, appeals, exam conflicts, and many other academic related matters: <https://www.uwo.ca/sci/counselling/>.

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 Accessible Education at (519) 661-2147 if you have any questions regarding accommodations.

Students who are in emotional/mental distress should refer to Mental Health@Western (<http://www.health.uwo.ca/mentalhealth>) 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>.
