BU CAS CS 320 (Fall, 2023) CONCEPTS OF PROGRAMMING LANGUAGES (PART 1)

Syllabus

• Semester Fall, 2023

• Lecture Times: TR: 11:00-12:15; 12:30-1:45

• Classroom: CAS B12; LSE B01

• Instructor: Hongwei Xi

• Instructor's Office: CDS 727

• Instructor's Office Hours: TBA

• Teaching Fellow: Qiancheng Fu and Zachery Casey

• Teaching Fellows' Office Hours: TBA

• Teaching Assistants: Anming Gu and Jason Wang

• Teaching Assistants' Office Hours: TBA

• Class Homepage:

http://www.cs.bu.edu/~hwxi/academic/courses/CS320/Fall23/index.html

- Textbook:
 - OCaml Programming: Correct + Efficient + Beautiful, which is available at

https://cs3110.github.io/textbook/cover.html

• Quiz1 : TBA

Quiz2 : TBA

• Midterm1: An in-class exam on Thursday, the 19th of October, 2023.

• Final: A two-hour in-class exam

 Overview: Concepts of Programming Languages (CPL) is a course that introduces students to some fundamental concepts in programming language design and implementation. The primary goal is to allow students who complete this subject to have a good feel for the elements of style and aesthetics of programming and a good command of the major techniques for controlling complexity in programming.

OCaml is a functional programming language that makes pervasive use of types in capturing programming invariants. We will be primarily doing programming in OCaml while making ocassionally use of Python so as to demonstrate concretely that the concepts learned in OCaml can be readily applied in Python, one of the most popular language in the world.

Ultimately, we would like to make a convincing argument that programming can be a great deal of fun if you do it the right way!

• Grades The final score is calculated using the following formula:

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Your Score for Part 1 = 05\%·(homework)
+ 04\%·(quiz01)
+ 04\%·(quiz02)
+ 12\%·(midterm1)
+ 05\%·(participation)
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- Homework Assignments There will be a homework assignment every one or two weeks depending on the amount of effort and time needed to finish the assignment. An assignment that is turned in after its due time is accepted but penalized according to the following policy.
 - 20% point deduction if the assignment is turned in within 24 hours after its due time.
 - 50% point deduction if the assignment is turned in between 24 and 48 hours after its due time.
 - no credit if the assignment is turned in more than 48 hours later after its due time.

From time to time, students may be requested to explain in details their solutions to the instructor, the TFs, and/or the TAs. Those who cannot adequately explain their solutions may see that their acquired points be deducted partly or wholely.

• Academic Integrity: We adhere strictly to the standard BU guidelines for academic integrity. For this course, it is perfectly acceptable for you to discuss the general concepts and principles behind an assignment with other students. However, it is not proper, without prior authorization of the instructor, to arrive at collective solutions. In such a case, each student is expected to develop, write up and hand in an individual solution and, in doing so, gain a sufficient understanding of the problem so as to be able to explain it adequately to the instructor. Under *no* circumstances should a student copy, partly or wholly, the completed solution of another student. If one makes substantial use of certain code that is not written by oneself, then the person must explicitly mention the source of the involved code.