CMPT 383 - D100 Programming Langs.

Instructor(s): Yuepeng Wang

Calendar Objective/Description:
Programming Langs.

Instructor's Objectives:
This course introduces the fundamental concepts behind different kinds of imperative and functional programming languages. It covers several topics about formal semantics, type checking, type inference, and the basics of functional programming. Students will learn to give semantics to program constructs, interpret program elements, check the correctness of types, and automatically detect the type of expressions in a program.

Prerequisites:
see go.sfu.ca

Topics:
- Functional programming
- Lambda calculus
- Formal semantics
- Type checking
- Type inference
- Polymorphism

Grading:
50% writing assignments; 40% programming assignments; 10% class activities. Details will be confirmed in the first week of classes.

Students must attain an overall passing grade on the weighted average of exams in the course in order to obtain a clear pass (C- or better).

Reference Books:
Types and Programming Languages, Benjamin C. Pierce, The MIT Press, 2002, 9780262162098

Academic Honesty Statement:
Academic honesty plays a key role in our efforts to maintain a high standard of academic excellence and integrity. Students are advised that ALL acts of intellectual dishonesty will be handled in accordance with the SFU Academic Honesty and Student Conduct Policies (http://www.sfu.ca/policies/gazette/student.html).