Course Syllabus for CSE 262: Programming Languages

Gang Tan

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Course description. This course covers the essential concepts and features in the design and implementation of programming languages. Students will learn various programming languages and paradigms. Students will have the ability to pick the best language for an application, and the ability to learn new programming languages independently.

Prerequisites. CSE 17 (Structured Programming and Data Structures). It is absolutely essential that you have taken the prerequisite course. We will assume you know Java; the first project will be programmed in Java.

Time and location. MWF 9:10-10am, Steps 280

Instructor. Gang Tan, Packard Lab 329, 610-7583737, gtan@cse.lehigh.edu. Office hours: Weds 1:30-3pm or by appointment. We also have two graders.

Course Website. A public website is at http://www.cse.lehigh.edu/~gtan/teaching/cse262s15/. Homework, readings, and schedule are announced there. Course supplemental materials will be posted in CourseSite (coursesite.lehigh.edu).


Major topics covered.

1. Syntax
2. Lexical and syntactic analysis
3. Scope
4. Parameter passing
5. Functional programming in Scheme
6. Type systems
7. Purity and side effects
8. Memory management
9. OO programming in Python
10. Logic programming
**Attendance.** Attendance is expected. Students who have legitimate reasons for absence have to inform the instructor **before the fact.** You are responsible for all materials presented in class whether present or not.

**Readings.** Readings will be announced on the public course website.

**Assignments.** You will periodically receive homework and project assignments that are to be turned in through CourseSite. Assignments and their due dates will be announced on the course website.

**Late Homework.** If you submit your homework within three days of the due date, we will deduct 25% of your score. Within a week, we will deduct 50%. We will not accept homework submissions after a week. Timely grading of late homework is not guaranteed.

**Exams.** There will be two in-class exams and a final exam. Make-up for missed exams will be granted only on a case-by-case basis.

There may be unannounced quizzes. The quizzes won’t be graded, but are used as a way to record attendance. **No makeup quizzes will be given.** Students who are excused from a quiz will not be penalized by missing the quiz.

**Grading.** Homework 20%; programming projects 25%; In-class exams 20%; Final exam 30%; Class participation 5%.

**Accommodations for Students with Disabilities.** If you have a disability for which you are or may be requesting accommodations, please contact both your instructor and the Office of Academic Support Services, University Center C212 (610-758-4152) as early as possible in the semester. You must have documentation from the Academic Support Services office before accommodations can be granted.

**Academic Integrity.** Academic integrity is crucial for the pursuit of knowledge. Please refer to Lehigh’s policy of academic integrity ([http://www.lehigh.edu/~indost/conduct/aireporting.shtml](http://www.lehigh.edu/~indost/conduct/aireporting.shtml)) for reference. **In particular for the programming projects in the course, you cannot borrow code from any other source, including the internet or other students.**

**Feedback.** The success of this course need a mutual communication between course staff and students. We welcome your feedback on anything related to the course, such as course material we covered, teaching techniques, and difficulties in finishing the homework and project. We need your input!

Lehigh University endorses The Principles of Our Equitable Community ([http://www4.lehigh.edu/diversity/principles](http://www4.lehigh.edu/diversity/principles)). We expect each member of this class to acknowledge and practice these Principles. Respect for each other and for differing viewpoints is a vital component of the learning environment inside and outside the classroom.