CSC 330 Principles of Programming Language

Syllabus

Meeting Information

- **Days, Times, & Room:** Tu 10:10 AM – 12:05 PM
  Th 11:15 AM – 12:05 PM
  ——————————————— @ 4N 213
  Tu 12:20 PM – 1:10 PM
  Th 12:20 PM – 2:15 PM

- **Homepage:** http://www.cs.csi.cuny.edu/∼chen/330

- **Instructor:** Cong Chen (cong.chen@csi.cuny.edu)

- **Office Hours:** Mo 4:30 PM – 5:30 PM @ 4N 206

Textbook & Other Materials

- Fluent Python: Clear, Concise, and Effective Programming (FP)

- Introduction to the Theory of Computation (ITC)

- Types and Programming Languages (TPL)

Grading Policy

- **Attendance & Participation:** 1 point each

- **Assignments, Quizzes and Project:** 35 points

- **3 Exams:** 25 points each

- **Grades:**

  A: More than 90 points;
  B: 75 to 90 points;
  C: 60 to 75 points;
  F: Fewer than 60 points

Topics

Programming Language Principles

- Regular Languages (ITC Chapter 1 Regular Languages)

- Regular Expressions (re – Regular expression operations)

- Context-Free Languages (ITC Chapter 2 Context-Free Languages)

- Program Language Semantics (TPL Chapter 5 Untyped Arithmetic Expressions)

—— Exam I ——

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Python and Language Paradigms

- Introduction to Python (The Python Tutorial; FP Chapter 1 The Python Data Model)

- Python Data Structures (FP Chapter 2 An Array of Sequences and Chapter 3 Dictionaries and Sets)

- The Functional Paradigm: The Lambda-Calculus (TPL Chapter 5 The Untyped Lambda-Calculus)

- Python Functions (FP Chapter 7 Functions as First-Class Objects)

- Object Oriented Programming (FP Chapter 11 A Pythonic Object)

—— Exam II ——

Final Reviews

—— Exam III ——