



CSC 012 Computer Science I

Term: Summer, 2019

Time: Monday – Friday, 5 Weeks

Class Sessions per Week: 5

Class Session Length (minutes): 150

Total Contact Hours: 60

Credit Hours: 4

Course Description

This course is an introduction to fundamental concepts of programming and computer science. This course includes basic programming constructs such as variables, functions, conditions, loops, tuples, lists, sets, dictionaries and files. It also includes basic algorithmic techniques and informal complexity analysis.

Textbook(s)

Mike McGrath, Python in easy steps, In Easy Steps Limited (August 27, 2013)

Course Resources

Python & IDLE (Integrated Development & Learning Environment for Python)

Course Requirements

Homework and Recitation: For every week, there will be homework and recitation. The recitation is mandatory and will take attendance. There will be three exams in this semester. The final exam will be cumulative, covering all the material covered in class.

Grading

Homework	10%
Recitation	20%
Mid-term Exam	30%
Final Exam	40%
Total	100%

A: 90-100 A-: 85-89 B+: 82-84 B: 78-81 B-: 75-77 C+: 72-74 C: 68-71 C-: 64-67 D: 60-63 F: <60



Schedule

Week 1

Course Introduction

Intro to Programming, Python

Variables, Conditionals, & IDLE

Week 2

Intro to Lists, Loops

Functions & Modular Programming

Lists & Strings

Week 3

Tuples & Sets

Files

Midterm Exam

Week 4

Dictionaries

Classes

Week 5

Searching

Recursion

Advance Python Topics(Application, GUI)

Review Session

Final Exam

Policies

Exam and Attendance

No make-ups for missed exams. If legitimate absence, midterm exam can be excused.

Attending all class meetings is required. Students are responsible for missing class by any reason. We will be covering a lot of material quickly so it is detrimental to miss even a day.

Academic Honesty

Xihua University expects all students to do their own work. Instructors will fail assignments that show evidence of plagiarism or other forms of cheating, and will also report the student's name to the University administration. A student reported to the University for cheating is placed on disciplinary probation; a student reported twice is suspended or expelled.

Special needs



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Students with disabilities and special needs should consult with the professor early in the semester. Recording of lectures is permitted.