

Georgia State University  
Department of Computer Science

CSC 4330/6330  
Fall, 2017

Kebina Manandhar

## **Course Syllabus**

### **Course Title**

Programming Language Concepts

### **Computer Number**

CSc 4330 / CSC 6330

### **Course Description**

Fundamental programming language concepts, including syntax versus semantics, binding time, scope, and storage management.

### **Prerequisites**

CSc 3210 (Computer Organization and Programming)  
CSc 2720 (Data Structures)

### **Class Time and Place**

M,W 1:00pm – 2:45 pm  
Room 107, Aderhold Learning Center

### **Instructor**

Dr. Kebina Manandhar  
Email: [kmanandhar1@gsu.edu](mailto:kmanandhar1@gsu.edu)

### **Office Hours:**

TR 2:40 – 3:40 pm (except when preempted by meetings) and by appointment.

### **Textbook**

Sebesta, *Concepts of Programming Languages*, Eleventh Edition, Pearson, 2016

## Topics

Preliminaries (Chapter 1)

Evolution of the Major Programming Languages (Chapter 2)

Describing Syntax and Semantics (Chapter 3)

Lexical and Syntax Analysis (Chapter 4)

Names, Bindings, and Scopes (Chapter 5)

Data Types (Chapter 6, except for Section 6.15)

Expressions and Assignment Statements (Chapter 7)

Statement-Level Control Structures (Chapter 8, except for Section 8.5)

Subprograms (Chapter 9)

## Grading

Assignments and exams will be given numerical scores. These scores will be averaged at the end of the semester using the following weighting:

Assignments	40%
Test 1	20%
Test 2	20%
Final exam	20%

Letter grades will be determined by ranking the numerical averages of all students in the class. Cut-off points for grades will depend on the performance of the class as a whole; however, they will be no higher than 90 (A), 80 (B), 70 (C), and 60 (D). Plus/minus grading will be in effect for this course.

For example, suppose that a student receives scores of 17, 17.5, 18, 16.5, 17.5, and 15.5 (out of 20) on the assignments. The average of the assignment scores is 17 (out of 20) or 85 (out of 100). Now, suppose the student has scores of 86 and 91 (out of 100) on the tests, and a score of 77 on the final exam. The student's overall average will be calculated as follows:

$$85 * .40 + 86 * .20 + 91 * .20 + 77 * .20 = 84.8$$

An average of 84 is guaranteed to be at least a B, because it falls between 80 and 90. There is a possibility that an average of 84 will be a B+, A-, A, or A+, depending on the performance of the class as a whole.

## Tests

There will be two tests given during class (tentative dates: October 2 and November 6). Both exams will be closed-book. If you are forced to miss one of these tests because of illness or other catastrophe, you must notify the instructor in advance. Before a makeup exam will be given, you must supply written evidence (e.g., a note from a physician or hospital) that you were unable to take the exam at the original time. Without such evidence, you will receive a score of zero for the test. Seating charts may be used for the tests, and may change from one test to the next. Also, multiple but equivalent exams may be used.

## **Final Exam**

The final exam will be administered on Monday, December 4, at 1:00 p.m. The final exam will be closed-book. A seating chart may be used for the final exam, and it may be different from the one used for prior tests. Also, multiple but equivalent exams may be used.

## **Assignments**

There will be six assignments. Each assignment is due at the beginning of class on the assigned date. Assignments turned in after the beginning of class will be considered late. Each assignment will be worth 20 points. The penalty for late assignments will be 4 points per calendar day. Late assignments must be submitted by email. Assignments emailed after 1:00 p.m. on the due date will be counted one day late. No assignments will be accepted after the starting time of the final exam.

A program submission consists of a hard-copy listing of the program and a file containing the source code of the program. The program must be written using a standard version of the specified language; use of nonstandard features will incur a penalty.

## **CSc 6330 Projects**

Students enrolled in CSc 6330 will be required to do a project in addition to the other requirements for the course.

## **Attendance**

Regular attendance is expected; please notify me in advance if you will be unable to attend because of business travel or other valid reason. Although the grading policy does not take attendance into account, failing to attend may adversely affect your grade, since exams will cover material discussed in class as well as in the assigned readings; also, hints related to the assignments will be given in class.

## **Academic Honesty**

All work submitted for grading must be the student's own work. Do not copy information verbatim from a web site or other source; put all answers in your own words. A student, who submits an assignment that copies the work of another student, in whole or in part, will be assigned a grade of zero for that assignment. Any student found to be cheating on an examination will receive a score of zero for that exam. Cheating on an assignment or exam may result in dismissal from the course and notification of the Dean of Students.

## **Classroom Etiquette**

Cellular phones must be turned off during class. Please do not arrive late, leave early, or go in and out of class, since this behavior is very distracting. USE OF CELL PHONES, TABLETS, OR LAPTOPS DURING CLASS IS PROHIBITED.

## **Withdrawals**

The last day to withdraw is Tuesday, October 10.

### **Disclaimer**

The course syllabus provides a general plan for the course; deviations may be necessary.