CSC323/CSC623 Programming Languages (Tuesday 6:00-9:30pm)

(Prerequisite: CSC226)

Instructor: Dr. Chenglie Hu (chu@carrollu.edu)
Office: Charles House 201 (Phone: 262-524-7170)
Office Hours: 1:00-2:00 Monday, Tuesday, Thursday (walk-ins, emails, and appointments are welcome)

Course Learning Outcomes:
In light of the Undergraduate Computer Science Program Goals, the course objectives are the following. Upon completion of the course, the student will:
1. Understand principal programming language concepts and the ways they are designed in the imperative, object-oriented, functional and logic language paradigms;
2. Make sound decisions to choose a programming language for a particular problem;
3. Master basic constructs of selected programming languages such as C, C++, Scheme;
4. Understand the underlying principles of language design through comparison and contrast;
5. Understand language specification with appropriate grammar and language implementation;
6. Understand certain theory of programming languages.

Textbook:

Coverage: As much as time permits

Teaching Methods:
1. This is a class where students gain not only deeper understanding about the programming languages they have learned elsewhere, but also the knowledge of new programming languages. Therefore, active participation in class discussions is important. You are expected to preview the chapter to be covered before each class and bring your questions.
2. Lectures are to use PowerPoint presentations assisted with programming language examples. Materials from outside sources may be covered in class if appropriate. Student-procured relevant outside materials are encouraged. Participation in class discussions is expected.
3. Lab sessions may be arranged for learning new languages.

Assessment:
1. There are weekly assignments. All assignments should be typed and only the hardcopies are accepted. There are also programming assignments, in which case copies of source code and program-execution screen capture are expected. (Learning Outcomes 1-6)
2. Quizzes may be given at instructor’s discretion. (Learning Outcomes 1-6)
3. There are two exams: midterm and final (each covers respective portion of the course). Final Exam date: May 9th, 2017. (Learning Outcomes 1-6)
4. Class participation – measured by class attendance, contribution in class discussions, and frequency of asking questions. (Learning Outcomes 1-6)

Grading Policies:
Letter grades will be determined as follows:
A 90%-100% AB 86%-89% B 80%-85% BC 76%-79% C 70%-75%  D 60%-69% F Below 60%
A final percentage, based on which a grade is assigned, will be determined using a *weighted* average. *The instructor reserves the right to specify the weights later in the semester.*

**Course Policies:**

**Missed Classes:** Missing more than one week of class will automatically result in a lower grade at instructor’s discretion. It is expected that you inform the instructor of an absence in advance in order for you to receive advice about the class you are going to miss in a timely fashion to minimize the impact on learning.

**Assignments:** An assignment is due in class one week after the assignment is given. Late assignments will not be accepted without instructor’s consent.

**Other Policy Statements:**

1. **ACADEMIC HONESTY:** While discussions are encouraged, all assignments must be completed independently. Copying other people’s work, if found, will result in zero credit for both parties involved. Repeated copying other people’s work will result in failure of the course in addition to other university penalties that may apply. See the “Academic Dishonesty” policy in VII of the College Student Handbook for more information.

2. The instructor and the College reserve the right to modify, amend, or change the syllabus (course requirements, grading policy, etc.) as the curriculum and/or program require(s)

**Help Resources:**

(1) There are ample online resources about various aspects of programming languages of any kind, particularly when learning a new language. Often times, a Google search might be the quickest way to find an answer.

(2) Contact Walter Young Centre if you need accommodation due to disabilities or other health issues.