CSC 226 (Data Structures) (prerequisite: CSC111) Thursdays: 6:00pm-9:30pm

INSTRUCTOR: Dr. Chenglie Hu, Phone: (262) 524-7170, E-mail: chu@carrollu.edu
OFFICE (Charles House 201)
OFFICE HOURS: 11:00-12:00pm (Monday, Tuesday & Thursday) (Walk-in’s are always welcome)

COURSE OBJECTIVES: In light of the Undergraduate CSC Program Goals: (a) Provide a coherent and broad-based coverage of the discipline of computing and technology, (b) Expose students to the body of theory that underlies the discipline, and (c) Develop the skills necessary for the student to become a successful technology professional, upon completion of the course, the student will
1. be able to implement fundamental data structures and searching-sorting algorithms
2. be able to apply data structures and search/sorting algorithms in problem-solving
3. further their understanding of object-oriented programming

TEXT: Object-Oriented Data Structures Using Java (3rd Ed.), by Dale et al.

COVERAGE: Chapters 1-10, with partial coverage on Chapter 9. Important material from outside sources may also be covered.

TESTS: Three exams will be given (including the final on December 14th, at 6:00pm). Final however is not comprehensive. For foreseeable conflicts, make-up exams should generally be taken in advance.

QUIZZES: There are weekly quizzes of review/preview nature. The best way to prepare for a quiz is to review what you have just learned in the past week and preview the next chapter. No make-up quizzes will be given; instead, I will drop the lowest quiz score when calculating the final grade.

TEACHING METHODS:
1. You are expected to preview the chapter to be covered and bring your questions to the class. Class participation, while no points assigned to it, will be taken into consideration when determining a semester grade at instructor’s discretion.
2. Lectures are based on class demonstrations and occasionally PowerPoint presentations, and are usually in an interactive manner. Questions are strongly encouraged whether they are directly or indirectly related to the topics of the course.
3. Lab sessions may be arranged as appropriate.

ATTENDANCE: required. Missing more than one night of classes will result in grade deduction at the instructor’s discretion.

ASSIGNMENTS:
1. There are end-of-chapter exercises, and suggested exercises are in a file at ftp://CSC226/EndChapterExsAnswers. It is expected that you go over these exercises (after each class). Most of answers are either available in the book or in the files in the above directory. Thus, your answers are not collected.
2. There are weekly programming assignments. A programming assignment typically involves a new implementation of the data structure under discussion or an application of the data structure. A programming assignment is normally due one week after it was assigned. Late assignments without consent from the instructor will incur points deduction. The assignments are accepted only in paper format specified below (electronic program files may be requested as needed).

To assemble an assignment, the following pages should be stapled together in that order:
a. A brief description of whether or not you’ve completed each item of the assignment successfully. If not, please describe the reasons or the difficulties you
had. You may also ask questions you encountered when you were completing the assignment, and you will see the answers when you get your assignment back.

b. A screen capture that shows the execution of the program.

c. Although a testing scenario may be given for a specific assignment, a description about all tests you performed may be required (in terms of methods tested and the test cases used).

d. Hard copies of the source code, which I can make comments on (if you used existing code, make sure you highlight the code you produced for the assignment (with a different shade of gray, or a highlighter).

**GRADING POLICY:** Exams (50%), programming assignments (40%), and quizzes (10%) will be used to determine a semester grade. Grades cutoffs will be no stricter than 90%, 80%, 70%, and 60%. (AB: 85%-89%, BC: 75%-79%) Excessive absence (more than a week of classes) will result in grade reduction at instructor's discretion.

**OTHER POLICIES:**

1. Carroll subscribes to MSDN Academic Alliance Program, which allows our students to download MS software free of charge. For the latest information about downloading the software, please contact Professor Mike Konemann at mgk@carrollu.edu.

2. Discussion is encouraged, but all the programming assignments must be completed independently. If you collaborated with students in class on an assignment, you need to mention their names. 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 school penalties that may apply. Academic integrity statement: The Carroll University Academic Integrity Policy is located in the student handbook—http://www.carrollu.edu/campuslife/shstudenthb.asp?nav=5769. Please familiarize yourself with it. Carroll University emphasizes that students have an obligation to conduct their academic work with honesty and integrity. All acts of academic misconduct are serious. If you have any questions about appropriate citations, please ask.

3. There are CS Tutors we employ each semester, but few (if any) will be able to answer your questions about the assignments of this course. So the best way to get help is to take advantage of instructor's office hours, or email the instructor about your questions.

4. Contact Walter Young Center (262-524-7621) if you need accommodation due to disabilities or other health issues. He or She should make an appointment with the Walter Young Center no later than the first week of class.

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