CPSC 1375: Programming I

Fall 2013
Department of Computer Science
Donaghey College of Engineering and Information Technology
University of Arkansas at Little Rock

Time: TR 6:00pm – 7:15pm

Location: EIT 323

Instructor: Dr. Shucheng Yu (sxyu1@ualr.edu)

Office: EIT 566

Office Hour (EIT 566): TR 1:00pm – 2:00pm, or by appointment


Course Webpage: UALR blackboard (blackboard.ualr.edu)

Prerequisites
MATH 1302 (College Algebra) or higher mathematics course.

Corequisite
CPSC 1175 (Introduction to Computer Science - Laboratory). Some prior familiarity with PC’s, as would be gained in a computer literacy course, would be useful but is certainly not essential. The CPSC 1175 laboratory experience should suffice for this. No prior knowledge of computer programming is expected or assumed, but ability to think logically and algorithmically will be highly useful.

Course Overview
This course essentially covers Chapter 1 through 6 (the basic procedural constructs of C++ programming), Chapter 7 (arrays), and parts of Chapter 8 (strings) and 10 (structures) of Savitch’s textbook; It can be succinctly described as an introduction to elementary programming and problem-solving techniques via the C++ programming language. After a brief survey of the history of computing, the course will heavily focus on programming. Major topics will include:

- Constants and variables, character and numeric information
- Data types and expressions
- Loop control, decision-making
• Input/output, files
• Strings, one- and multi-dimensional arrays
• Functions and procedures
• Introduction to record structures
• Program debugging and testing techniques
• Common practices of writing robust and reliable programs
• Defensive programming skills such as input validation and type checking

**Grading Policy**

- Lab assignments: 48%
- Midterm: 22%
- Final: 30%

  A: 90% - 100%
  B: 80% - 89%
  C: 70% - 79%
  D: 60% - 69%
  F: < 60%

There will be *eight* lab assignments, each counting 6%. Midterm exam counts 22%. Final exam will count 30%. All exams and due dates will be announced in advance. No make-up exam will be given; students who must miss an exam or an assignment due date should make prior arrangements with the instructor. Late assignments will be accepted (with slight lateness penalty) at the class meeting immediately following the due date, after which they will not be accepted. Furthermore, it is expected that all work submitted will be the result of the efforts of the individual submitting the work; any work which fails to meet this criterion will not be accepted.

**Students with Disabilities**

Your success in this class is important to me, and it is the policy and practice of the University of Arkansas at Little Rock to create inclusive learning environments consistent with federal and state law. If you have a documented disability (or need to have a disability documented), and need an accommodation, please contact me privately as soon as possible, so that we can discuss with the Disability Resource Center (DRC) how to meet your specific needs and the requirements of the course. The DRC offers resources and coordinates reasonable accommodations for students with disabilities. Reasonable accommodations are established through an interactive process among you, your instructor(s) and the DRC. Thus, if you have a disability, please contact me and/or the DRC, at 501-569-3143 (V/TTY) or 501-683-7629 (VP). For more information, please visit the DRC website at [www.ualr.edu/disability](http://www.ualr.edu/disability).

**Academic Integrity**

The students must comply with the UALR Integrity Policy as described at

**Modifications to syllabus**

The syllabus may be modified at the discretion of the instructor or in the event of extenuating circumstances. Students will be notified in class of any changes to the syllabus.