

CS 115—Introduction to Computer Programming (3)

Course Description

This course teaches introductory skills in computer programming using an object-oriented computer programming language. There is an emphasis on both the principles and practice of computer programming. Covers principles of problem solving by computer and requires completion of a number of programming assignments. Lecture, 3 hours. Prerequisites: none.

Course Competencies

Upon successful completion of this course, a student can demonstrate an understanding of:

1. Network browsers, e-mail, and on-line access to course information via a computer system.
2. Overview of computer systems and introduction to the concept of high-level computer programming languages.
3. Problem solving via computer: principles of top-down and object-oriented program design, programming tools, and
4. Introduction to the specifics of a high-level programming language.
5. Control structures and data representations.
6. Structured data and structured programming.

Course Outline