

**J. Sargeant Reynolds Community College
Course Content Summary**

Course Prefix and Number: CSC 155

Credits: 3

Course Title: Computer Concepts and Applications

Course Description: Introduces basic hardware and software concepts of computer usage programming languages and the computer's impact on society. Includes applications of various types of software to illustrate how computers are used in sciences, social sciences, humanities, and education. Covers the use of an operating system, word processing, spreadsheets, email, library access, database access and retrieval, presentation graphics, and the Internet. Lecture 3 hours per week.

General Course Purpose: As one of two computer competency courses, CSC 155 provides students an opportunity to develop the knowledge and skills required for the college's degree and full certificate programs.

Course Prerequisites and Co-requisites:

None

Student Learning Outcomes:

Upon completing the course, the student will be able to

- a. Understand basic hardware;
- b. Understand software, both operating systems and applications;
- c. Be familiar with the concepts of computer usage and programming languages;
- d. Understand the computer's impact on society; and
- e. Have a hands-on experience with Windows, word processing, spreadsheets, databases, presentation graphics and communications (Internet and World Wide Web).

Major Topics to Be Included:

- a. Introduction to basic hardware
- b. Introduction to software, operating systems, and applications for academic disciplines
- c. Concepts of computer usage
- d. Computer's impact on society
- e. Hands-on experience with: operating systems, word processing, spreadsheets, databases, communications (use with academic research), and presentation graphics
- f. An introduction to programming languages

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