

## STANDARDIZED COURSE OUTLINE

### SECTION I

**SUBJECT AREA AND COURSE NUMBER:** CST 120

**COURSE TITLE:** Introduction to Operating Systems

#### **COURSE CATALOG DESCRIPTION:**

This course covers fundamentals, concepts, and applications of operating systems. A number of popular operating systems will be covered in depth, including MS-DOS, IBM Mainframe MVS, and DEC's Open VMS. Unix will be discussed. It is assumed that students are familiar with the Windows environment. Comparisons between Windows and other operating systems will be stressed. The course is a mixture of lecture and lab. Formerly listed as CIS 130, not open to students who have successfully completed CIS 130. Prerequisite: CSC\* 101.

**LECTURE HOURS PER WEEK:** 3

**CREDIT HOURS:** 3

**LAB HOURS PER WEEK (if applicable):** n/a

**PREREQUISITE(S):** CSC 101

### SECTION II

#### **A. SCOPE:**

This course focuses on fundamentals of various operating systems. The operating systems covered in this course include: Windows XP, Windows 98, Windows 95, Windows 2000 and Linux. Basics concepts for each operating system are covered as well as fundamental troubleshooting techniques.

#### **B. REQUIRED WORK:**

Will vary by instructor. Students will be expected to do all required readings, assignments, tests, and quizzes as outlined by their instructor.

#### **C. ATTENDANCE AND PARTICIPATION:**

Regular attendance, assignment submission timeliness, promptness and class/lab participation will be expected. Instructors will include specific attendance and participation policies requirements in their class syllabi.

#### **D. METHODS OF INSTRUCTION:**

Methods may include any of the following: lecture, lecture/discussion, small group, collaborative learning, experimental/exploration, distance learning, student presentations, computer demonstrations, or use of technologies such as audio-visual materials, computer laboratory equipment, and SAM exam software. Emphasis will be on hands-on computer exercises and problems.

#### **E. OBJECTIVES, OUTCOMES, and ASSESSMENT**

Students' grades will be based on achievement of learning the objectives and outcomes listed below as measured by the instructor's methods of assessment:

<b>LEARNING OBJECTIVES</b>	<b>LEARNING OUTCOMES</b>	<b>ASSESSMENT METHODS</b>
<b>To demonstrate an understanding of:</b>	<b>Student will:</b>	<b>As measured by:</b>
Windows XP	a) Perform various projects using this operating system b) Learn about utility tools available in this operating system	<ul style="list-style-type: none"> <li>• Homework/Lab assignments;</li> <li>• Written and Oral activities;</li> <li>• Quizzes and Exams</li> </ul>
Windows 2000	a) Perform various projects using this operating system b) Learn about utility tools available in this operating system	<ul style="list-style-type: none"> <li>• Homework/Lab assignments;</li> <li>• Written and Oral activities;</li> <li>• Quizzes and Exams</li> </ul>
Windows 98	a) Perform various projects using this operating system b) Learn about utility tools available in this operating system	<ul style="list-style-type: none"> <li>• Homework/Lab assignments;</li> <li>• Written and Oral activities;</li> <li>• Quizzes and Exams</li> </ul>
Windows 95	a) Perform various projects using this operating system b) Learn about utility tools available in this operating system	<ul style="list-style-type: none"> <li>• Homework/Lab assignments;</li> <li>• Written and Oral activities;</li> <li>• Quizzes and Exams</li> </ul>
Linux	a) Perform various projects using this operating system b) Learn about utility tools available in this operating system c) Learn about advantages / disadvantages of using Linux	<ul style="list-style-type: none"> <li>• Homework/Lab assignments;</li> <li>• Written and Oral activities;</li> <li>• Quizzes and Exams</li> </ul>

**F. TEXT(S) AND MATERIALS:**

An appropriate Operating System text:

**Text:**           *Operating Systems Concepts (current edition)*

**Author:**       Avi Silberschatz, Peter Baer Galvin, Greg Gagne

**Publisher:**    John Wiley and Sons, Inc.

**SAM Testing Software** - A testing software provided by the Course Technology Publisher that tests the skills of students by requiring them to perform tasks in simulated software platforms

**G. INFORMATION TECHNOLOGY:**

This course is an information technology course and will require extensive computer lab time both for teaching and performing assignments. Students will require network accounts with access to the Internet and current versions of Microsoft Windows, Word, Excel, and PowerPoint as well as file storage space.