

SPRINGFIELD TECHNICAL COMMUNITY COLLEGE

ACADEMIC AFFAIRS

Course Number: PROG 313 Department: Information Technologies

Course Title: Operating Systems Semester: Fall Year: 1999

Objectives/Competencies

Course Objective	Competencies
1. Recognize and describe how various Operating Systems function.	<ol style="list-style-type: none">1. Analyze the major components of a typical Operating System.2. Evaluate the functions of the major components of a typical Operating System.3. Explain the evolution of the major components of the typical Operating System.
2. Recall and relate the major subsystems of typical operating systems and their functions.	<ol style="list-style-type: none">1. Compare memory management allocation schemes and algorithms and evaluate the problems solved and created by each.2. Analyze the concepts, algorithms and policies used in processor, process and job scheduling.3. Differentiate the concepts of resource allocation and process synchronization.4. Examine multiprocessing synchronization and communication in both single and multi cpu environments.5. Compare and contrast the techniques used in balancing

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3. Demonstrate proficiency with a modern Graphics User Interface based Operating System.	<p>demands for the system's devices.</p> <p>6. Appraise the strengths and weaknesses of file organizations, physical storage allocation schemes, record types and access methods.</p> <ol style="list-style-type: none">1. Use the tasks associated with the efficient usage of the NT operating environment.2. Use file management tasks such as copying, deleting, moving, and renaming files and folders3. Use, with proficiency, the system administration tasks such as adding printers and fonts, creating and sharing files and folders, setting and adjusting network security and file access rights.4. Demonstrate the successful installation and setup of the NT workstation operating system.5. Demonstrate proficiency in the creation, modification and deletion of user accounts.