

CSI 2500: Introduction to Operating Systems for System Administrators

Credits Hours: 4 credits, 3.57 contact hours/week.

Instructor: Paul Bonamy, Ph.D.

Text book: Operating System Concepts, 9th Edition by Abraham Silberschatz, Peter B. Galvin, and Greg Gagne ISBN-13: 978-1-118-06333-0.

Specific course information

Introduces fundamental concepts of system administration for Unix and Windows operating systems. Concepts of operating system such as file system, memory management, processes and service management are discussed in view of System Administration. Script programming is introduced to automate system administration tasks.

Prerequisites: CSI 2480.

Required course for IT major

Course Objectives: Upon successful completion of this course, students should be able to

- Demonstrate understanding of file systems, memory, process, management and access control [ABET IT: (a, k)]
- Demonstrate understanding of processing, multi-processing, shared time, concurrence, and threat [ABET IT: (a, b, i)]
- Develop ability of script programming to automate system administration related tasks [ABET IT: (b, j, k)]
- Develop understanding of key system modules, directory structures, their purpose and importance of Windows and Unix operating systems [ABET IT: (j, k)]

List of Topics:

- System administration
- Unix operating systems
- Windows operating systems.
- Memory management
- Processes and service management
- System Administration Storage devices