

IS270 Course Syllabus

Course Title

IS270 Applied Operating Systems

Course Instructor

CS Division Faculty

Course Description

Students will develop an understanding of how operating systems work and develop the necessary skills to interact with current operating systems.

Course Learning Outcomes

After completing this course:

- Students can explain core operating systems functionality
- Students can describe the internal organization of an operating system
- Students can illustrate types of devices that require and use operating systems
- Students can characterize and contrast resource utilization tactics such as multitasking and multithreading
- Students can describe file systems and storage
- Students can design operating system configuration
- Students can contrast differing purposes and approaches of some modern operating systems

Course Schedule Outline

- Week 1: Introductions; about operating systems
- Week 2: Classic memory management
- Week 3: Modern memory management
- Week 4: Process management; concurrent processes
- Week 5: Device management
- Week 6: File management
- Week 7: System management
- Week 8: In practice: Unix/Linux
- Week 9: In practice: MS Windows
- Week 10: Current operating system topics

Course Textbook

Understanding Operating Systems, Ann McHoes and Ida M. Flynn; ISBN-13 978-1439079201

Course Policies

Contact your instructor for course policies regarding attendance, grading, academic integrity, technology use, and special accommodations.