



**THE OHIO STATE UNIVERSITY**  
COLLEGE OF ENGINEERING

# Operating Systems Laboratory

## CSE 5433

**Credit Hours:**

3.00

---

**Course Levels:**

Undergraduate (1000-5000 level)

Graduate (5000-8000 level)

---

**Course Components:**

Lecture

Lab

---

**Course Description:**

Introduction to the internals of operating systems; designing and implementing components within commercial operating systems: system calls, CPU scheduling, context switching, process management, memory management, file systems.

---

**Prerequisites and Co-requisites:**

Prereq: 2431 or 5431.

---

**Course Goals / Objectives:**

- Master compilation and configuration of building an OS
  - Master internals of OS system call implementation
  - Be competent with CPU scheduling and process management
  - Be competent with memory management systems
  - Be competent with internals of file systems
-

**Course Topics:**

- Linux basics (Overview of Linux, Building Linux, and kernel source tree)
  - Internals of system calls
  - Linux CPU scheduling and process management
  - Linux interrupt handling
  - Linux memory management
  - Linux file systems
- 

**Designation:**

Elective