THE OHIO STATE UNIVERSITY
COLLEGE OF ENGINEERING

The UNIX Programming Environment

CSE 4251

Credit Hours:
1.00

Course Levels:
Undergraduate (1000-5000 level)

Course Components:
Lecture

Course Description:
Introduction to the UNIX programming environment including: shell programming (csh); regular expressions; makefiles; grep, sed, and awk programming languages.

Prerequisites and Co-requisites:
Prereq: 2122, 2123, or 2231; and 2321; and enrollment in CSE, CIS, ECE, Engr Physics, or Data Analytics major, or CIS minor.

Course Goals / Objectives:
- Be familiar with csh programming.
- Be familiar with UNIX regular expressions.
- Be familiar with using basic sed commands.
- Be familiar with using awk commands to filter through data files.

Course Topics:
- C Shell: filename metacharacters, i/o redirection, command history, building complex command, job/process control, directory control
- C Shell programming: script introduction, script examples, debugging scripts
- Regular expressions in Unix (grep)
- Make, sed, awk

Designation:
Elective