



CATALOG DESCRIPTION: In this course, students are introduced to standard operating system features (file, device, process managers, editors, mail systems, command language, utilities) using the UNIX operating system.

PREREQUISITE(S): **CSC 103 Intro to Computing**

COREQUISITE(S): **None**

CREDITS: **3** **HOURS:** **2 lecture; 2 lab**

REQUIRED TEXT(S): **TBDb**

ISBN:

SUPPLEMENTAL MATERIALS:

INSTRUCTOR INFORMATION:

OFFICE HOURS:



CORE COMPETENCIES: The following core competencies are embedded in this curriculum: The following core competencies are embedded in this curriculum: Apply appropriate mathematical and statistical concepts and operations to interpret data to solve problems; Use scientific method of inquiry, through the acquisition of scientific knowledge; Use computer systems or other appropriate forms of technology to achieve educational and personal goals; Understand ethical issues and situations; Address an information need by locating, evaluation and effectively using information.	
LEARNING ASSESSMENT	
<i>Student Learning Outcomes:</i>	<i>Suggested Means of Assessment:</i>
Evaluate and explain the general and specific setup and management of Unix files	Lab Assignments/Projects/Exams
Detail how the Unix operating system affects the World Wide Web	Lab Assignments/Projects/Exams
Identify and compare the different versions of the Unix Operating System	Lab Assignments/Projects/Exams
Identify several of the Unix Utilities and detail their specific function.	Lab Assignments/Projects/Exams
Identify and compare the common types of networks found in today's computer systems	Lab Assignments/Projects/Exams
GRADING SYSTEM:	
A = 90 < 100	C+ = 77 < 80
B+ = 87 < 90	C = 70 < 77
B = 80 < 87	D = 60 < 70
	F = Below 60

DISABILITY SERVICES STATEMENT: Warren County Community College is committed to providing all students equal access to learning opportunities. Student Services is the campus office that works with students who have disabilities to provide and/or arrange reasonable accommodations. Students who have, or think they may have, a disability (e.g. mental health, learning, vision, hearing, physical or systemic), are invited to contact Student Services to arrange a confidential discussion at (908) 835-2300 or by email at StudentServices@Warren.edu as soon as possible. Students registered for Disability Services with Student Services, who have requested accommodations for the current semester will be provided with an electronic letter detailing individual accommodations and are encouraged to contact the instructor early in the semester to discuss accommodations outlined in their letter.



INSTRUCTIONAL SUPPORT CENTER: The Instructional Support Center (ISC), located in Room 105 across from the library, provides academic support at no cost to WCCC students and is available for courses in which they are currently enrolled. The ISC is staffed with trained professional and peer tutors who are ready to help you understand and succeed. For scheduling or further information, visit the ISC in person, online at <http://www.warren.edu/tutoring/> or by telephone at (908)835-2354.

STATEMENT AND POLICY ON CHEATING, PLAGIARISM AND ACADEMIC DISHONESTY: Students are required to perform all the work specified by the instructor, and are responsible for the content and integrity of all academic work submitted. A violation of academic integrity will occur if a student: (1) knowingly represents work of others as one's own, (2) uses or obtains unauthorized assistance in any academic work, (3) gives fraudulent assistance to another student, or (4) furnishes false information or other misuse of college documents.

In cases of suspected violation of academic integrity, the incident is to be reported to the Office of Academics. A student found guilty of violating the rule of academic integrity by the Vice President of Academics will be considered to have failed in personal obligation to the College; such failure will be subject to disciplinary action by the College. Unless otherwise notified, the instructor will allow students who are pending disciplinary action to attend class.

REQUIRED FORMAT FOR RESEARCH PAPERS: Research papers written for any Warren County Community College class must conform to the required documentation style. Papers written for humanities (and some social science) classes will follow the most recent edition of the Modern Language Association (MLA) in-text citation and bibliographic methods. Social science and science papers will require the use of the most recent edition of the American Psychological Association (APA) in-text citation and bibliographic methods. History papers will require the use of the most recent edition of the Chicago Manual of Style (CMS) footnotes, citations and bibliographic methods.

Please consult with your instructor regarding the correct documentation style to use in his/her class.

ATTENDANCE POLICY: Students are expected to attend all class sessions of courses in which they are enrolled and are responsible for all material presented in class and all homework assignments.

Grades are based on the quality of work completed in meeting the requirements for a particular course, as stated in the course syllabus and catalog description.

Excessive absence may be considered sufficient cause for dismissal from class by an instructor or other appropriate college staff member. Any decision to exclude a student from class or the College due to excessive absence shall be subject to review by the President in accordance with established procedures. Students who have not attended class are not entitled to a refund of tuition.



WCCC HAYTAIAN & MAIER LIBRARY: (908) 835-2336 <http://warren.libguides.com>

Library Hours

Monday-Thursday 8am-8pm

Friday 8am-3pm

Check the Academic Calendar for specific holiday dates. Exceptions may apply during breaks and summer sessions. Any changes to the Library's hours are posted on the Library's web page and near the Library doors.

- **Passwords and Log-Ins**-The Library is responsible for resetting passwords for your Network account (email, computers, Wi-Fi, library resources, and printing). This cannot be reset over the phone. Please stop by the Library for help.
- **College IDs**-College IDs are required for all students. The Library is responsible for producing all ID cards. To get an ID card you must bring to the Library a current copy of your class schedule and another form of ID. Your student ID is also your library card and is needed to check materials out of the Library. Your first ID card is free and replacement cards are issued at a cost to the student.
- **Inter-Library Loan (ILL)**-The Library participates in a nation-wide inter-library loan program which is available free to all students and faculty. You can either submit ILL requests via the Internet (form available on the Library's web page) or in person at the circulation desk.

TOPICAL OUTLINE:

1. Unix System Overview

- A. General UNIX Topics: Shell, Utilities, Security, Kernel.
- B. Unix Popularity and Acceptance and its Future
- C. Popular Versions of the Unix Operating System
- D. Additional Unix System Features

2. Unix Basic Operations

- A. Accessing the Unix System
- B. Basic Text Editing using the vi editor
- C. Unix System Commands

CSC 150-II Operating Systems

Fundamentals: Unix

3. Unix Utilities

- A. Popular Unix Utilities such as talk, mail, and finger
- B. Useful Unix Utilities such as man, date, and grep

4. Unix File Structure

- A. Hierarchical Filing Systems



- B. Directories
- C. Access Permissions
- 5. Unix Shell
 - A. Command Line Syntax
 - B. Standard Input and Output
 - C. I/O Redirection and Piping
 - D. Multitasking
- 6. Networking
 - A. Common Types of Networks
 - B. Communication Over a Network
 - C. Network Utilities and Services
 - D. Networking on the World Wide Web
- 7. Unix: vi editor
 - A. Basic vi editor Operations
 - B. Command Mode and Input Mode
 - C. Miscellaneous Basic and Advanced Editor Commands
 - D. File Manipulation and Access
- 8. Unix C Shell
 - A. History and Similarities/Differences with the other Shells
 - B. Basic Command Syntax and Operation
 - C. C Shell Variable Manipulation
 - D. C Shell Control Structures
 - E. Built-In Commands
- 9. Unix Programming Tools
 - A. C Programming and the make Utility
 - B. Source Code Management using SCCS Files



GRADING METHODS:

ITINERARY: (subject to change)

Explain the general and specific setup and management of Unix files.

- Detail how the Unix operating system affects the World Wide Web.
- Identify and compare the different versions of the Unix Operating System.
- Use different commands and utilities within the Unix Shell.
- List several of the Unix Utilities and detail their specific function.
- Write commands to process input and output within the Unix Shell.
- Perform operations that demonstrate the multitasking capabilities of Unix.
- List and compare the common types of networks found in today's computer systems.
- Create and edit basic text files using the vi editor.
- Use the special features of the vi editor to enhance a text document.
- Send electronic mail through the Unix system
- List and compare the 3 popular versions of Unix Shells.
- Create programs using C Shell variables and different program controls.
- Create simple C Programs using the Unix Programming editor.



Warren
County Community College

**CSC 150 Operating Systems
Fundamentals: Unix**

Master Syllabus

