

Washtenaw Community College Comprehensive Report

CIS 120 Linux/UNIX I: Fundamentals

Effective Term: Fall 2021

Course Cover

Division: Business and Computer Technologies
Department: Computer Science & Information Technology
Discipline: Computer Information Systems
Course Number: 120
Org Number: 13410
Full Course Title: Linux/UNIX I: Fundamentals
Transcript Title: Linux/UNIX I: Fundamentals
Is Consultation with other department(s) required: No
Publish in the Following: College Catalog , Time Schedule , Web Page
Reason for Submission: Course Change
Change Information:
 Credit hours
 Total Contact Hours
 Pre-requisite, co-requisite, or enrollment restrictions
 Outcomes/Assessment
 Objectives/Evaluation

Rationale: The 16 credit hour certification program is being discontinued. Of the four courses within the certification program CIS 121 is still needed for a variety of other programs within the CSIT department. The course will be updated to reflect appropriate content used within industry today and the credit hour reduction will be aligned with the content and contact hours necessary to learn this material.

Proposed Start Semester: Fall 2021

Course Description: In this course, students are introduced to UNIX and Linux tools. The course covers the UNIX/Linux file system, communication with other users, the use of text editors, file manipulation and processing, basics of pipes and redirection, simple shell programming, and a basic introduction to Linux. This course contains material previously taught in CIS 121.

Course Credit Hours

Variable hours: No

Credits: 3

Lecture Hours: Instructor: 45 Student: 45

Lab: Instructor: 0 Student: 0

Clinical: Instructor: 0 Student: 0

Total Contact Hours: Instructor: 45 Student: 45

Repeatable for Credit: NO

Grading Methods: Letter Grades

Audit

Are lectures, labs, or clinicals offered as separate sections?: NO (same sections)

College-Level Reading and Writing

College-level Reading & Writing

College-Level Math

Requisites

General Education

Request Course Transfer

Proposed For:

Student Learning Outcomes

1. Demonstrate setting file and folder permissions.

Assessment 1

Assessment Tool: Outcome-related lab assignments

Assessment Date: Fall 2024

Assessment Cycle: Every Three Years

Course section(s)/other population: All sections

Number students to be assessed: All students

How the assessment will be scored: Departmentally-developed rubric

Standard of success to be used for this assessment: 70% of the students will score 75% or higher

Who will score and analyze the data: Lead instructor

2. Use the Linux/UNIX command line interface (CLI) to accomplish standard tasks.

Assessment 1

Assessment Tool: Outcome-related lab assignments

Assessment Date: Fall 2024

Assessment Cycle: Every Three Years

Course section(s)/other population: All sections

Number students to be assessed: All students

How the assessment will be scored: Departmentally-developed rubric

Standard of success to be used for this assessment: 70% of the students will score 75% or higher

Who will score and analyze the data: Lead instructor

3. Create and modify files with the VI editor.

Assessment 1

Assessment Tool: Outcome-related lab assignments

Assessment Date: Fall 2024

Assessment Cycle: Every Three Years

Course section(s)/other population: All sections

Number students to be assessed: All students

How the assessment will be scored: Departmentally-developed rubric

Standard of success to be used for this assessment: 70% of the students will score 75% or higher

Who will score and analyze the data: Lead instructor

4. Create scripts that can be run in the Linux/UNIX system.

Assessment 1

Assessment Tool: Outcome-related lab assignments

Assessment Date: Fall 2024

Assessment Cycle: Every Three Years

Course section(s)/other population: All sections

Number students to be assessed: All students

How the assessment will be scored: Departmentally-developed rubric

Standard of success to be used for this assessment: 70% of the students will score 75% or higher

Who will score and analyze the data: Lead instructor

Course Objectives

1. Connect to a remote server from the new system.
2. Create new files with specified content using the VI editor.
3. Demonstrate how to start and stop the VI editor.
4. Modify information from files using the VI editor.
5. Modify ownership of files and directories as instructed.
6. Change file and directory permissions as instructed.
7. Demonstrate setting read, write and execute using symbolic notation.
8. Create variables used for scripting.
9. Use if-else statements to do logic in scripts.
10. Demonstrate how to use loops to iterate through data.
11. Using the CLI, demonstrate the use of absolute path, relative path and tilde path.
12. Using the CLI, move files, copy files and create links to files.

New Resources for Course

Course Textbooks/Resources

Textbooks
Manuals
Periodicals
Software

Equipment/Facilities

Computer workstations/lab

<u>Reviewer</u>	<u>Action</u>	<u>Date</u>
Faculty Preparer: <i>Scott Shaper</i>	<i>Faculty Preparer</i>	<i>Dec 08, 2020</i>
Department Chair/Area Director: <i>Cyndi Millns</i>	<i>Recommend Approval</i>	<i>Dec 10, 2020</i>
Dean: <i>Eva Samulski</i>	<i>Recommend Approval</i>	<i>Dec 11, 2020</i>
Curriculum Committee Chair: <i>Lisa Veasey</i>	<i>Recommend Approval</i>	<i>Mar 03, 2021</i>
Assessment Committee Chair: <i>Shawn Deron</i>	<i>Recommend Approval</i>	<i>Mar 04, 2021</i>
Vice President for Instruction: <i>Kimberly Hurns</i>	<i>Approve</i>	<i>Mar 05, 2021</i>