Washtenaw Community College Comprehensive Report

CIS 206 Linux/UNIX II: Basic System Administration, Networking, and Security
Effective Term: Spring/Summer 2014

Course Cover
Division: Business and Computer Technologies
Department: Computer Instruction
Discipline: Computer Information Systems
Course Number: 206
Org Number: 13410
Full Course Title: Linux/UNIX II: Basic System Administration, Networking, and Security
Transcript Title: Linux/UNIX II: Basic System Ad
Is Consultation with other department(s) required: No
Publish in the Following: College Catalog , Time Schedule , Web Page
Reason for Submission: Three Year Review / Assessment Report
Change Information:
   Consultation with all departments affected by this course is required.
   Credit hours
   Total Contact Hours
   Distribution of contact hours
   Outcomes/Assessment
   Objectives/Evaluation
   Other:
Rationale: Increase credit and contact hours because of added content. Course was conditionally approved - seeking full approval.
Proposed Start Semester: Spring/Summer 2014
Course Description: In this second of four courses on the Linux operating system, Linux System administration tasks are discussed and practiced. This course is designed to help prepare students for Linux Certification Exams. Students should be familiar with common Linux distributions and should be comfortable with basic installation and configuration to succeed in this course.

Course Credit Hours
Variable hours: No
Credits: 4
Lecture Hours: Instructor: 60 **Student:** 60
Lab: Instructor: 0 **Student:** 0
Clinical: Instructor: 0 **Student:** 0

Total Contact Hours: Instructor: 60 **Student:** 60
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
No Level Required

Requisites
Prerequisite
Academic Reading and Writing Levels of 6
Prerequisite
Level II Prerequisite: CIS 121

General Education
General Education Area 7 - Computer and Information Literacy
Assoc in Arts - Comp Lit
Assoc in Applied Sci - Comp Lit
Assoc in Science - Comp Lit

Request Course Transfer
Proposed For:

Student Learning Outcomes

1. Recognize and apply operating system terminology.
   Assessment 1
   Assessment Tool: Short answer test
   Assessment Date: Fall 2015
   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 70% or higher.
   Who will score and analyze the data: Departmental faculty
   Assessment 2
   Assessment Tool: Lab exercises
   Assessment Date: Fall 2015
   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 70% or higher.
   Who will score and analyze the data: Departmental faculty

2. Identify and apply basic system administration skills.
   Assessment 1
   Assessment Tool: Short answer test
   Assessment Date: Fall 2015
   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 70% or higher.
   Who will score and analyze the data: Departmental faculty
   Assessment 2
   Assessment Tool: Lab exercises
   Assessment Date: Fall 2015
   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 70% or higher.
Who will score and analyze the data: Departmental faculty

3. Recognize basic security issues and apply procedures to secure a server.
    Assessment 1
        Assessment Tool: Short answer test
        Assessment Date: Fall 2015
        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 70% or higher.
        Who will score and analyze the data: Departmental faculty
    Assessment 2
        Assessment Tool: Lab exercises
        Assessment Date: Fall 2015
        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 70% or higher.
        Who will score and analyze the data: Departmental faculty

4. Recognize and apply moderately advanced commands, programs and administrative tasks.
    Assessment 1
        Assessment Tool: Short answer test
        Assessment Date: Fall 2015
        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 70% or higher.
        Who will score and analyze the data: Departmental faculty
    Assessment 2
        Assessment Tool: Lab exercises
        Assessment Date: Fall 2015
        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 70% or higher.
        Who will score and analyze the data: Departmental faculty

Course Objectives
1. Recognize computer terminology and define or describe the words/acronyms.
    Matched Outcomes
2. Explain the functions or processes that are represented by computer terminology.
    Matched Outcomes
3. Set up system logging and analyze log output.
    Matched Outcomes
4. Install and configure X WINDOWS services.

Matched Outcomes
5. Design a hard disk partitioning scheme.
   Matched Outcomes
6. Define sources of security threats.
   Matched Outcomes
7. Configure system in a way that protects against security threats.
   Matched Outcomes
8. Identify and install software programs that aid in securing the system.
   Matched Outcomes
9. Recognize the steps in the standard boot process.
   Matched Outcomes
10. Configure the syslog daemon to consolidate log output.
    Matched Outcomes
11. Recognize TC/PIP network fundamentals.
    Matched Outcomes
12. Recognize different features provided by UDP, TCP and ICMP.
    Matched Outcomes

New Resources for Course
Course Textbooks/Resources
    Textbooks
    Manuals
    Periodicals
    Software
Equipment/Facilities

Reviewer	Action	Date
Faculty Preparer:		
Philip Geyer	*Faculty Preparer*	*Dec 13, 2013*
Department Chair/Area Director:		
John Trame	*Recommend Approval*	*Dec 19, 2013*
Dean:		
Rosemary Wilson	*Recommend Approval*	*Dec 19, 2013*
Vice President for Instruction:		
Bill Abernethy	*Approve*	*Jan 15, 2014*