



Course Information

Course Title	Linux Installation and Configuration
Course Prefix, Num. and Title	ITSC 1316 - Linux Installation and Configuration
Division	Business and Computer Science
Department	Computer Science
Course Type	WECM Course
Course Catalog Description	Introduction to Linux operating system. Includes Linux installation, basic administration, utilities and commands, upgrading, networking, security, and application installation. Emphasizes hands-on setup, administration, and management of Linux.
Pre-Requisites	None
Co-Requisites	None

Semester Credit Hours

Total Semester Credit Hours (SCH): Lecture Hours:	3:2:2
Lab/Other Hours	
Equated Pay Hours	3
Lab/Other Hours Breakdown: Lab Hours	2
Lab/Other Hours Breakdown: Clinical Hours	0
Lab/Other Hours Breakdown: Practicum Hours	0
Other Hours Breakdown	0

Approval Signatures

Title	Signature	Date
Prepared by:		
Department Head:		
Division Chair:		
Dean/VPI:		
Approved by CIR:		

Additional Course Information

Topical Outline: Each offering of this course must include the following topics (be sure to include information regarding lab, practicum, and clinical or other non-lecture instruction).

Topical Outline – Each offering of this course must include the following topics (be sure to include information regarding lab, practicum, clinical or other non-lecture instruction):

- Install Linux Operating System
- Perform basic user-level commands
- Perform system administration level commands
- Create a basic shell script
- Create basic text files
- Assign appropriate file permissions to file and folders
- Edit documents and perform searches
- Create and manage user accounts
- Assign password policies to users
- Delegate “administrator” (root) privileges to users
- Create virtual network interfaces
- Install the desktop
- Perform basic network troubleshooting commands

Course Learning Outcomes:

Learning Outcomes Upon successful completion of this course, students will	Methods of Assessment
<ul style="list-style-type: none"> • Install, administer, and manage a Linux system • Demonstrate proficiency with Linux utilities, commands, and applications • Identify and resolve security-based issues. • Integrate a Linux system into an existing network. 	<p>All outcomes will be assessed by one or more of the following:</p> <p style="padding-left: 40px;">Individual/Group Assignments</p> <p style="padding-left: 40px;">Individual/Group Projects</p> <p style="padding-left: 40px;">Reading Assignments</p> <p style="padding-left: 40px;">Presentations</p> <p style="padding-left: 40px;">Lab Works/Assignments</p> <p style="padding-left: 40px;">Quizzes/Tests/Exams</p>

Required text(s), optional text(s) and/or materials to be supplied by the student:

Linux+ Guide to Linux Cert (w/CD & Access Code) Edition: 3rd; Author: Eckert
 Publisher: Course Technology; ISBN-13: 9781418837211; ISBN-10: 1418837210. Or Similar Current Title

Suggested Course Maximum: 18

Enter Suggested Course Maximum Here.

List any specific or physical requirements beyond a typical classroom required to teach the course.

- Current Linux operating system software (64 bit) for each student and instructor
- Current VMware Workstation for each student and instructor
- Antivirus software for each student and instructor
- Computer (64 bit CPU, 12 GB Ram, graphics cards, monitors, for each student
- Removable hard drive for each student and instructor (1 TB hard drive)
- Laser Printer
- Cat 5 network cable, RJ-45 jacks and crimper for each student and 2 cable tester
- Instructor needs 2 monitors, 2 NICs, & Data projector

Current lab equipment has the capability for 18 students

Course Requirements/Grading System: Describe any course specific requirements such as research papers or reading assignments and the generalized grading format for the course.

Labs.....	20-40%
Homework.....	20-40%
Tests & Final Exam.....	40-60%
Attendance & Participation.....	0-20%

Grading System

- 90 -100 = A
- 89 – 80 = B
- 79 – 70 = C
- 69 – 60 = D
- Below = F

Curriculum Checklist:

- Administrative General Education Course** (from ACGM, but not in WCJC Core) – No additional documents needed.
- Administrative WCJC Core Course.** Attach the Core Curriculum Review Forms
 - Critical Thinking
 - Communication
 - Empirical & Quantitative Skills
 - Teamwork
 - Social Responsibility
 - Personal Responsibility
- WECM Course** -If needed, revise the Program SCANS Matrix and Competencies Checklist