Wharton County Junior College

Administrative Master Syllabus

Course Information

Course Title	Unix System Administration I
Course Prefix, Num. and Title	ITSC 1358 - Unix System Administration I
Division	Technology and Business
Department	Computer Science
Course Type	WECM Course
Course Catalog Description	Basic UNIX workstation administration. Includes installing a standalone system, adding users, backing up and restoring file systems, and adding new printer support. Emphasis on the procedures needed to perform system administration tasks. Introduces the concept of the system and disk management.
Pre-Requisites	ITSC 1307
Co-Requisites	None

Semester Credit Hours

Total Semester Credit Hours (SCH): Lecture Hours: Lab/Other Hours	3:2:2
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:	Stephen Lyford Digitally signed by Stephen Lyford Date: 2020.06.11 09:58:43 -05'00'	06/11/2020
Department Head:	Stephen Lyford Digitally signed by Stephen Lyford Date: 2020.06.11 09:58:53 -05'00'	06/11/2020
Division Chair:	David Kucera Digitally signed by David Kucera DN: cn=David Kucera, o=Wharton County Junior College, ou=Division of Technology and Business, email=davidk@wcjc.edu, c=US Date: 2020.06.11 12:03:16 -05'00'	06/11/2020
Dean/VPI:	Paul J. Quinn Digitally signed by Paul J. Quinn Date: 2020.06.12 09:01:42 -05'00'	06/12/2020
Approved by CIR:	Paul J. Quinn Digitally signed by Paul J. Quinn Date: 2020.06.12 09:01:58 -05'00'	06/12/2020

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:
- Schell Scripting
- Access Control
- Managing the file system
- Storage
- Install and update
- Backup and recovery
- Drivers
- TIC/IP networking

Course Learning Outcomes:

Learning Outcomes – Upon successful completion of this course, students will:

Manage user accounts; maintain system security; configure new devices; install and partition disk drives; manage file systems; configure and schedule system related jobs; maintain print services; install the UNIX operating system; administer software packages and patches; perform backup and recovery operations; and solve user-related problems.

Methods of Assessment:

All outcomes will be assessed by one or more of the following:
Programming Projects
Lab Assignments
Tests and Quizzes
Final Exam

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

- UNIX and Linux System Administration Handbook Forth Edition by Nemeth, Snyder, Heim and Whaley ISBN-13 978-0-13-148005-6
- USB Flash Drive
- High-speed Internet Connection

Suggested Course Maximum:

24 Sugar Land
16 Fort Bend Tech Center
16 Wharton

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

- Unix or Linux operating system software licensed for each student (evaluation version is appropriate)
- Computer for each student where operating system can be installed (use of Linux through Virtual PC is appropriate for this course)

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

Course Requirements:

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

Grading System:
100-90 = A
89-80 = B
79-70 = C
69-60 = D
and 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