



Purpose: It is the intention of this Administrative-Master Syllabus to provide a general description of the course, outline the required elements of the course and to lay the foundation for course assessment for the improvement of student learning, as specified by the faculty of Wharton County Junior College, regardless of who teaches the course, the timeframe by which it is instructed, or the instructional method by which the course is delivered. It is not intended to restrict the manner by which an individual faculty member teaches the course but to be an administrative tool to aid in the improvement of instruction.

Course Title - Unix System Administration I

Course Prefix and Number - ITSC 1358

Department – Computer Science

Division – Technology & Business

Course Type: (check one)

- Academic General Education Course (from ACGM – but not in WCJC Core)
- Academic WCJC Core Course
- WECM course (This course is a Special Topics or Unique Needs Course: Y or N)

Semester Credit Hours #: Lecture Hours #: Lab/Other Hours #: 3:2:2

Equated Pay hours for course - 3

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.

Prerequisites/Co-requisites - ITSC 1307

List Lab/ Other Hours
Lab Hours 2
Clinical Hours 0
Practicum Hours 0
Other (list) 0

Prepared by: Donna Schilling

Date: 07-19-2015

Reviewed by Department Head: Donna Schilling

Date: 07-19-2015

Accuracy verified by Division Chair: David Kucera

Date: 8/12/15

Approved by Dean or Vice President of Instruction: Leigh Ann Collins

Date: 12-18-15



I. 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):

Topical Outline:

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

II. Course Learning Outcomes

Learning Outcomes	Methods of Assessment
<p>Upon successful completion of this course, students will:</p> <p>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.</p>	<p>All outcomes will be assessed by one or more of the following:</p> <p>Programming Projects Lab Assignments Tests and Quizzes Final Exam</p>

III. Required Text(s), Optional Text(s) and/or Materials to be Supplied by 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

IV. Suggested Course Maximum –

24 Sugar Land
16 Fort Bend Tech Center
16 Wharton

V. List any specific spatial 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)

VI. 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

VII. Curriculum Checklist

- **Academic General Education Course** (from ACGM – but not in WCJC Core)
No additional documentation needed
- **Academic WCJC Core Course**
Attach the Core Curriculum Checklist, including the following:
 - Basic Intellectual Competencies
 - Perspectives
 - Exemplary Educational Objectives
- **WECM Courses**
If needed, revise the Program SCANS Matrix & Competencies Checklist.