

COURSE SYLLABUS

Course Title:	Unix/Linux System Administration		Date submitted:	Spring 2014 (AAC: 14-28)	
Department:	Business and Technology				
Curriculum:	Computer Information Systems				
Course Descriptors: Make certain that the course descriptors are consistent with college and Board of Trustees policies, and the current course numbering system.	Course Code: (eg. ACC 101)	CST*264	Prerequisites:		
	Course Type:	X	Network Essentials I (CST*130)		
	A: Clinical B: Lab D: Distance Learning I: Individual/Independent L: Lecture N: M: Seminar Internship P: Practicum U: Studio X: Combined Lecture/Lab Y: Combined Lecture/ Clinical/Lab Z: Combined Lecture/Studio		Elective Type:	G	
	E: English FA: Fine Arts FL: Foreign Language G: General HI: History HU: Humanities LAS: Liberal Arts & Sciences M: Math S: Science SS: Social Science		Credit Hours:	3	
	Developmental: (yes/no)		No	Corequisites:	
	Lecture:		3	None	
	Clinical:		0		
	Lab:		0		
	Studio:		0		
	Other:		0		
Contact Hours:		TOTAL: 3	Other Requirements:		
Class Maximum:		24	None		
Semesters Offered:		F/S			
Catalog Course Description:	Students will be introduced to the Unix/Linux environment and its history. Students will learn the basics of installing, administrating and maintaining a Linux implementation. Topics such as the shell, fault tolerance, managing system resources, backup and recovery will be presented.				
Topical Outline: List course content in outline format.	1. History of Unix/Linux 2. Installation of Linux 3. Running a Linux System 4. Using graphical systems with Linux 5. Working with the Shell 6. System administration using Linux 7. Backup and restoration of data. Implementation of a disaster recovery plan 8. Monitoring and optimizing performance of a Linux implementation				
Outcomes: Describe measurable skills or knowledge that students should be able	Upon successful completion of this course, the student will be able to do the following: COURSE: 1. Install, administer and maintain a Unix/Linux network;				

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<p>to demonstrate as evidence that they have mastered the course content.</p>	<ol style="list-style-type: none"> 2. Create user and group accounts in Unix/Linux; 3. Implement a backup, recovery and disaster recovery plan in a Unix/Linux environment; 4. Work with shells, scripts and graphical systems with Unix/Linux. <p>PROGRAM: <i>(Numbering reflects Program Outcomes as they appear in the college catalog)</i> CIS: Network Administration Option</p> <ol style="list-style-type: none"> 2. Install, administer and maintain a Linux network 7. Develop and implement a backup, recovery and disaster recovery plan for a network <p>GENERAL EDUCATION: <i>(Numbering reflects General Education Outcomes as they appear in the college catalog)</i></p> <ol style="list-style-type: none"> 2. Critical Analysis/ Logical Thinking - Students will be able to organize, interpret, and evaluate evidence and ideas within and across disciplines; draw reasoned inferences and defensible conclusions; and solve problems and make decisions based on analytical processes. <p style="margin-left: 40px;">Demonstrates: Identifies the issue(s); formulates an argument; explains and analyzes relationships clearly; draws reasonable inferences and conclusions that are logical and defensible; provides support by evaluating credible sources of evidence necessary to justify conclusions.</p> <p style="margin-left: 40px;">Does Not Demonstrate: Identifies few or no issues; formulates an argument without significant focus; provides an unclear explanation of analysis and relationships; drawing few reasonable inferences and conclusions that are illogical and indefensible; provides little to no support using credible sources of evidence necessary to justify conclusions.</p>
<p>Evaluation: List how the above outcomes will be assessed.</p>	<p>Assessment will be based on the following criteria:</p> <ol style="list-style-type: none"> 1. Hands-on assignments, project, and case studies will demonstrate a student's ability to install, administer and maintain a Linux network. 2. Written examinations will demonstrate an understanding of major facts, procedures and theories. <p>At least one assignment or project will be designated as an electronic portfolio piece for uploading to ePortfolio.org.</p>
<p>Instructional Resources: List library (e.g. books, journals, on-line resources), technological (e.g. Smartboard, software), and other resources (e.g. equipment, supplies, facilities) required and desired to teach this course.</p>	<p>Required: Computer lab with the Linux operating system installed. Desired: None</p>
<p>Textbook(s)</p>	<p>Refer to current academic year printout.</p>