UNIVERSITY OF THE FRASER VALLEY

OFFICIAL UNDERGRADUATE COURSE OUTLINE (page 1)

COURSE IMPLEMENTATION DATE: September 2001
COURSE REVISED IMPLEMENTATION DATE: September 2011
COURSE TO BE REVIEWED: January 2014
(four years after UPAC approval) *(month, year)*

OFFICIAL UNDERGRADUATE COURSE OUTLINE INFORMATION

Students are advised to keep course outlines in personal files for future use.
Shaded headings are subject to change at the discretion of the department – see course syllabus available from instructor

CIS 291	**Computer Information Systems**	**4**
COURSE NAME/NUMBER	FACULTY/DEPARTMENT	UFV CREDITS

Networking Theory and Applications
COURSE DESCRIPTIVE TITLE

CALENDAR DESCRIPTION:

Students will become familiar with networking concepts including networking directory service, networking file systems, network printing, and network management. Students will receive practical training on the installation and integration of network operating systems, on the use of single- and multi-user systems via networking, and on the use of a variety of peripherals.

PREREQUISITES: CIS 190; and one of CIS 191, CIS 192, or CIS 194
COREQUISITES: None
PRE or COREQUISITES:

SYNONYMOUS COURSE(S):
(a) Replaces:
(b) Cross-listed with:
(c) Cannot take: for further credit.

SERVICE COURSE TO: *(department/program)*

TOTAL HOURS PER TERM: 60

STRUCTURE OF HOURS:

Lectures:	45	Hrs
Seminar:		Hrs
Laboratory:	15	Hrs
Field experience:		Hrs
Student directed learning:		Hrs
Other (specify):		Hrs

TRAINING DAY-BASED INSTRUCTION:
Length of course:
Hours per day:

OTHER:
Maximum enrolment: **35**
Expected frequency of course offerings: Once per year
(every semester, annually, every other year, etc.)

WILL TRANSFER CREDIT BE REQUESTED? (lower-level courses only)	☒ Yes	☐ No
WILL TRANSFER CREDIT BE REQUESTED? (upper-level requested by department)	☐ Yes	☐ No
TRANSFER CREDIT EXISTS IN BCCAT TRANSFER GUIDE:	☐ Yes	☒ No

Course designer(s): **Edward Lo**

Department Head: **Ora Steyn** Date approved: **October 16, 2009**
Supporting area consultation (UPACA1) Date of meeting: **November 6, 2009**
Curriculum Committee chair: **Edward Lo** Date approved: **October 8, 2009**
Dean/Associate VP: **Dan Ryan** Date approved: **January 18, 2010**
Undergraduate Program Advisory Committee (UPAC) approval Date of meeting: **January 29, 2010**

LEARNING OUTCOMES:

Upon successful completion of this course, students will be able to:

1. Describe the characteristics of a network operating system (NOS)
2. Install and configure a Windows server
3. Explain and implement directory services
4. Describe networking file systems, network printing, backup and recovery
5. Administer multi-user systems NOS using directory services
6. Describe the history of UNIX and Linux
7. Demonstrate the usage of various types of line commands in UNIX/Linux

METHODS: *(Guest lecturers, presentations, online instruction, field trips, etc.)*

Lecture

METHODS OF OBTAINING PRIOR LEARNING ASSESSMENT RECOGNITION (PLAR):

☒ Examination(s) ☒ Portfolio assessment ☒ Interview(s)

☐ Other (specify):

☐ PLAR cannot be awarded for this course for the following reason(s):

TEXTBOOKS, REFERENCES, MATERIALS:

[Textbook selection varies by instructor. An example of texts for this course might be:]

Hands-On Microsoft Windows Server 2008 Administration, by Michael Palmer, Course Technology.
Beginning the Linux Command Line, by Sander van Vugt, Apress.
Linux in a Nutshell, 6th Edition, by Arnold Robbins, O'Reilly Media Inc.

SUPPLIES / MATERIALS:

STUDENT EVALUATION:

[An example of student evaluation for this course might be:]

Participation	10%
Quizzes	20%
Assignments	15%
Midterm exam	15%
Final exam	40%

COURSE CONTENT:

[Course content varies by instructor. An example of course content might be:]

1. Definition of Network Operating Systems (NOSes)
2. Example NOSes covered: Windows Server and UNIX/Linux Server
3. Installation and maintenance of a NOS
4. Introduction to the concepts of directory services
5. Implementation of directory services
6. History of UNIX/Linux
7. UNIX/Linux line commands
8. Network printing and file systems
9. Folder permissions, file permissions and security policies
10. Backup and restoration
11. System processes and memory management