

FLORIDA STATE COLLEGE AT JACKSONVILLE

COLLEGE CREDIT COURSE OUTLINE

COURSE NUMBER: CET 1742

COURSE TITLE: Introduction to Network Configuration

PREREQUISITE(S): CET 1514 and CET 2186

COREQUISITE(S): None

CREDIT HOURS: 3

CONTACT HOURS/WEEK: 4

CONTACT HOUR BREAKDOWN:

 Lecture Discussion: 3

 Laboratory: 1

 Other _____:

FACULTY WORKLOAD POINTS: 3.7

STANDARDIZED CLASS SIZE ALLOCATION: 24

COURSE DESCRIPTION:

This course covers network terminology, basic network installation and configuration, and network cabling. Hands-on laboratories are provided.

SUGGESTED TEXT(S): Network & Certification, by Hoffman, Ryukin and Houde,
Publisher: Prentice Hall ISBN: 0-13-016895-5

IMPLEMENTATION DATE: Fall Term, 2000 (20011)

REVIEW OR MODIFICATION DATE: Fall Term, 2002 (20031)
Fall Term, 2005 (20061)
Fall Term, 2006 (20071)

COURSE TOPICS	CONTACT HOURS <u>PER TOPIC</u>
I. Introduction to Networking	3
II. Network Components	6
III. OSI Model	7
IV. Network Design	7
V. Network and Client Configuration	20
VI. Network Expansion	4
VII. WAN Technologies	8
VIII. Hands-on Testing	5

PROGRAM TITLE: Computer Engineering Technology

COURSE TITLE: Intro to Network Configuration

CIP NUMBER: 0615.040200

LIST PERFORMANCE STANDARDS ADDRESSED:

NUMBER(S): TITLES(S):

02.0 DEMONSTRATE PROFICIENCY IN SOFTWARE FUNDAMENTALS -- The student will be able to:

- 02.01 Load and run operating system software.
- 02.02 Load and run diagnostic software and utilities.
- 02.10 Troubleshoot firmware using defined hardware.

03.0 DEMONSTRATE PROFICIENCY IN COMMUNICATION INTERFACING -- The student will be able to:

- 03.03 Demonstrate the use of interactive devices.
- 03.04 Identify and define networking levels.
- 03.05 Identify and define protocols.
- 03.06 Troubleshoot and repair network systems.
- 03.07 Identify and define multi-user systems.

05.0 DEMONSTRATE PROFICIENCY IN CUSTOMER SITE REQUIREMENTS AND CONSIDERATIONS -- The student will be able to:

- 05.01 Apply effective customer relations.
- 05.02 Follow installation procedures.
- 05.03 Calculate and determine power requirements.
- 05.04 Calculate and determine environmental requirements.

08.0 DEMONSTRATE PROFICIENCY IN COMPUTER NETWORKING TECHNIQUES -- The student will be able to:

- 08.01 Identify and define computer networking techniques.
- 08.02 Design a system using hardware and software communication protocols.
- 08.03 Apply management techniques for network software.

09.0 DEMONSTRATE PROFICIENCY IN THE USE OF MICROCOMPUTER DISK OPERATING SYSTEM SERVICES AND FUNCTIONS -- The student will be able to:

- 09.03 Describe various disk formats.
- 09.05 Describe the extended services of enhanced systems.

PROGRAM TITLE: Biomedical Engineering Technology

COURSE TITLE: Introduction to Network Configuration

CIP NUMBER: 1615.040101

LIST PERFORMANCE STANDARDS ADDRESSED:

NUMBER(S): TITLES(S):

06.0 UNDERSTAND BASIC NETWORKING PRINCIPLES - The student will be able to:

06.01 Understand basic network hardware technologies.

06.02 Understand basic network software technologies.

06.03 Demonstrate proficiency in understanding broad-based vendor independent network hardware technologies such as:

a. Local Area Networks (LAN)

b. Wide Area Networks (WAN)

06.04 Demonstrate proficiency in understanding basics in principle software protocols such as TCP/IP functions.

06.05 Demonstrate proficiency in relating network technology to real world applications in the biomedical field such as:

a. Laboratory Information Systems (LIS)

b. Hospital Information Systems (HIS)

c. Medical Instrumentation Interfacing



NOTE: Use either the Tab key or mouse click to move from field to field. The box will expand to accommodate your entry.

<i>Section 1</i>	
COURSE PREFIX AND NUMBER: <u>CET 1742</u>	SEMESTER CREDIT HOURS: <u>3</u>
COURSE TITLE: <u>Introduction to Network Configuration</u>	

Section 2

TYPE OF COURSE: (Click on the box to check all that apply)

<input type="checkbox"/> AA Elective	<input type="checkbox"/> AS Required Professional Course	<input type="checkbox"/> College Prep
<input type="checkbox"/> AS Professional Elective	<input checked="" type="checkbox"/> AAS Required Professional Course	<input type="checkbox"/> Technical Certificate
<input type="checkbox"/> Other _____		
<input type="checkbox"/> General Education: (For General Education courses, you must also complete Section 3 and Section 7)		

Section 3 (If applicable)

INDICATE BELOW THE DISCIPLINE AREA FOR GENERAL EDUCATION COURSES:

<input type="checkbox"/> Communications	<input type="checkbox"/> Social & Behavioral Sciences	<input type="checkbox"/> Mathematics
<input type="checkbox"/> Natural Sciences	<input type="checkbox"/> Humanities	

Section 4

INTELLECTUAL COMPETENCIES:

<input checked="" type="checkbox"/> Reading	<input checked="" type="checkbox"/> Speaking	<input checked="" type="checkbox"/> Critical Analysis	<input checked="" type="checkbox"/> Quantitative Skills	<input type="checkbox"/> Scientific Method of Inquiry
<input checked="" type="checkbox"/> Writing	<input checked="" type="checkbox"/> Listening	<input type="checkbox"/> Information Literacy	<input checked="" type="checkbox"/> Ethical Judgment	<input checked="" type="checkbox"/> Working Collaboratively

<i>Section 5</i>	
LEARNING OUTCOMES	METHOD OF ASSESSMENT
• The student understands components and terminology related to networking and network servers.	Hands-on exercises, written quizzes and tests.
• The student understands concepts relating to user and group rights and permissions.	Hands-on exercises, written quizzes and tests.
• The student can implement a server in a networked environment.	Hands-on exercises, written quizzes and tests.
• The student can install and manage users and groups.	Hands-on exercises, written quizzes and tests.
• The student can implement network user/group policies.	Hands-on exercises, written quizzes and tests.
• The student can manage user and computer accounts.	Hands-on exercises, written quizzes and tests.
• The student can manage access to resource	Hands-on exercises, written quizzes and tests.
• The student can implement network printing.	Hands-on exercises, written quizzes and tests.
• The student can audit network accounts and resources.	Hands-on exercises, written quizzes and tests.
• The student can install network-based software.	Hands-on exercises, written quizzes and tests.

Section 6

Name of Person Completing This Form: <u>Ernie Friend</u>	Date: <u>03/09/06</u>
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