

# Information Technology A.A.S.

## Network Emphasis

### Program Description

The Information Technology-Network Emphasis degree prepares students for a variety of career opportunities. The program provides a general education background in computers and networking with emphasis on Microsoft. Students that successfully complete this degree are prepared to take the Microsoft Certification tests. Each student has the opportunity to become a Microsoft Certified Systems Administrator and hold an associates in applied science degree in the field of networking. The curriculum provides an excellent foundation for those seeking employment in networking or advanced training for those already working in the communications and networking field.

### Employment Information

The U.S. Bureau of Labor Statistics says computer support specialists and systems administrators are projected to be among the fastest growing occupations over the next 10 years. Job prospects will be best for college graduates who are up to date with the latest skills and technologies, certification and practical experiences. OSU-Oklahoma City is one of the first universities in the midwest to offer an associate degree in the field of networking which parallels Microsoft Certification.

### Cooperative Agreement

This program is part of a cooperative agreement offered between OSU-Oklahoma City and Metro Technology Centers.

### Degree Awarded

Associate in Applied Science

### For More Information Contact:

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Technical Occupational Specialty				36 Credit Hours	Date	Institution
<input type="checkbox"/>	CIS	2513	Principles of Information Systems Security	3		
<input type="checkbox"/>	CIS	2803	Computer Science Project Capstone	3		
<input type="checkbox"/>	ITD	1323	Internet Fundamentals	3		
<input type="checkbox"/>	ITD	2053	Telecommunications Fundamentals	3		
<input type="checkbox"/>	ITD	2213	Windows Networking I	3		
<input type="checkbox"/>	ITD	2313	Windows Networking II	3		
<input type="checkbox"/>	ITD	2333	Windows Networking III	3		
<input type="checkbox"/>	ITD	2433	Linux	3		
<input type="checkbox"/>	ITD	2523	LAN Fundamentals	3		
<input type="checkbox"/>	ITD	2623	Advanced LAN Fundamentals	3		
<input type="checkbox"/>	CIS/TCOM/ITD Electives (approved by department)			6		
<b>Support and Related Courses</b>				<b>7 Credit Hours</b>		
<input type="checkbox"/>	BUS	1011	Business Ethics	1		
<input type="checkbox"/>	BUS	2113	Business Communications	3		
<input type="checkbox"/>	MGMT	2213	Human Resources Management	3		
or						
<input type="checkbox"/>	MGMT	2103	Principles of Management	3		
<b>General Education Requirements</b>				<b>18 Credit Hours</b>		
<input type="checkbox"/>	ENGL	1113	English Composition I	3		
<input type="checkbox"/>	HIST	1483	U.S. History to 1865	3		
or						
<input type="checkbox"/>	HIST	1493	U.S. History Since 1865	3		
<input type="checkbox"/>	MATH	1413	General College Math	3		
<input type="checkbox"/>	POLS	1113	American Government	3		
<input type="checkbox"/>	SPCH	1113	Introduction to Speech Communication	3		
<input type="checkbox"/>	General Education Elective (must be approved by division advisor)			3		
<b>Total to Graduate</b>				<b>61 Credit Hours</b>		

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<b>Student Name:</b>	_____
<b>CWID:</b>	_____
<b>Counselor:</b>	_____
Catalog 2009-2010	

**BUS 1011 BUSINESS ETHICS**

A study of contemporary and classical views relating to moral judgments and conduct within the business environments.

**BUS 2113 BUSINESS COMMUNICATIONS**

Includes effective communication strategy, effective report presentation (both written and oral), effective summarizing skills and analytical reasoning skills. Focuses on the dynamics, qualities, functions and methods of administrative communication; problems and practices of preparing effective material. Prerequisite: ENGL 1113

**\*CIS 2513 PRINCIPLES OF INFORMATION SYSTEMS SECURITY**

This course provides the student with a broad review of the field of information systems security, background on many related elements and enough detail to facilitate an understanding of the field. It covers terminology of information systems security, the history of the field and an overview on how to manage an information systems security program. Prerequisites: CIS 1113 or CIS 1103.

**\*CIS 2803 COMPUTER SCIENCE PROJECT CAPSTONE**

As the capstone course of the Computer Science Program, the student will demonstrate the collected knowledge, skills and techniques acquired in the program courses by working through scenarios. Students will demonstrate problem solving, critical thinking, research techniques and technical writing. Computer ethics and group dynamics will be emphasized to help round out the student's education.

**\*ITD 1323 INTERNET FUNDAMENTALS**

Introduction to the worldwide computer network. Course uses a hands-on approach to teach students the history and capabilities of the Internet. Students learn the resources available via the World Wide Web and searching capabilities. Prerequisites: placement test or CIS 1003.

**\*ITD 2053 TELECOMMUNICATIONS FUNDAMENTALS**

Examines and analyzes strategies for telecommunications, including network systems and forms of electronic communications. Overview of resources and utilization of systems transmitting information between a computing system and remotely located sending and receiving devices. Demonstrations, discussion and hands-on exercises with an emphasis on telecommunications and applications. Prerequisite: CIS 1103 or CIS 1113.

**\*ITD 2213 WINDOWS NETWORKING I**

Course is designed to give the student basic knowledge of Microsoft Windows networking and its uses. Students will be given projects using the operating software features and will learn how other software programs link to the operating systems. Topics may include using network neighborhood, objects linking and embedding, and managing hardware. Prerequisite: CIS 1103 or CIS 1113 and ITD 2523.

**\*ITD 2313 WINDOWS NETWORKING II**

This course provides students with the knowledge and skills necessary to learn how to set up and support the Microsoft Windows operating system in a single domain environment. Prerequisites: ITD 2213. Fall only.

**\*ITD 2333 WINDOWS NETWORKING III**

This course provides students with the knowledge and skills necessary to learn how to administer an enterprise network infrastructure. Prerequisite: ITD 2313. Spring only.

**\*ITD 2433 LINUX**

This course is a study of the Linux operating system and applications for system, file and disk management. It includes an introduction to systems administration and development of programs for the Linux operating system. Fall only.

**\*ITD 2523 LAN FUNDAMENTALS**

Course is designed to provide the students with basic knowledge of computer networks. Students will learn the types and methodology of networks. Exercises will involve hands-on use of computer networks. Prerequisite: CIS 1003 or CIS 1113 or CIS 1103.

**\*ITD 2623 ADVANCED LAN FUNDAMENTALS**

Course reviews data, text, graphics and voice communications technology and their application. Included is vocabulary, configuration of local networks, modems, rates and standards. An overview of protocols is given. Prerequisite: ITD 2523. Fall only.

**MGMT 2103 PRINCIPLES OF MANAGEMENT**

An introductory course presenting the basic concepts and practices of management, both private and public. Topics include historical development of management; basic definitions and philosophy; fundamentals managerial functions, including planning, organizing, staffing, directing and controlling; current trends in management; possible future developments in organization and administration.

**MGMT 2213 HUMAN RESOURCES MANAGEMENT**

Focuses on developing students' understanding of human resource issues and the practical application of methods for solving these issues. Topics covered include job analysis, recruitment, interviewing, selection, performance appraisal, training, compensation and equal employment opportunity. Issues are reviewed within the context of the historical and current social environment, labor market, legal and global economic conditions influencing practice. Prerequisite: MGMT 2103.