

# Bachelor of Science in Information Technology (BSIT)

## Concentration in **Network Administration**



### OVERVIEW

Private and public sector entities depend on information technology leaders to conceptualize, implement, and manage high quality, secure information systems to support their organizations. AIU® offers an industry-relevant BSIT program with a concentration in Network Administration that combines theory and knowledge with hands-on experience. Focus areas include network technologies, models, security management, and contemporary network solutions.

### CURRICULUM INCLUDES

In this specialized curriculum, you can explore how to implement and deploy network topologies using the necessary network hardware and software systems.

This real-world concentration can help you develop a focused, industry-specific knowledge base common to IT professionals in the field of network administration. For example:

**Routing and Switching:** students can study topics including the role of switches and routers in network topologies and architectures, collisions and network congestion, and switch management issues.

**Network Security Management:** students can learn about mechanisms used to protect data from attack. Topics may include access control types and methods, malware and social engineering, cryptography, and security policies.

**Special Topics in Network Administration:** students can explore an advanced selection of topics which may include network management, operations and administration, developments in networking technologies, or business needs for networking services.

### WE CAN HELP YOU

- Articulate ethical, legal, and professional responsibilities of information technology professionals to include societal and global impact
- Communicate technical information verbally, written, and graphically in various professional settings
- Design and maintain computer-based solutions based on user or system requirements, best practices and industry-relevant tools and technologies
- Recommend computing solutions based on evaluation of current technologies, principles, and theories
- Function effectively on teams in various roles appropriate for the information technology discipline

\* Transfer credit is evaluated on an individual basis. Not all credits are eligible to transfer. See the University Catalog for transfer credit policies.

### COURSEWORK

### OUTCOMES

### WHY AIU?

AIU offers a streamlined, real-world curriculum and flexibility designed to help you schedule school around your life, not the other way around. Along with industry-relevant undergraduate and graduate degree programs, our industry-focused concentrations allow in-depth study of the field.

To accommodate busy lives, we offer full- and part-time program options and transfer-in credit\* for eligible college, work and military experience, which could cut down on the time it takes to earn a degree.



[AIUniv.edu](http://AIUniv.edu)

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The AIU Bachelor of Science in Information Technology (BSIT) degree program offers a dynamic curriculum focused on industry-relevant technology trends and applications designed to help students learn how to evaluate emerging technologies in the application of appropriate information systems to manage and achieve organizational goals and objectives.

### FOCUS ON YOUR SPECIFIC AREA OF INTEREST

By studying key topics in network administration to complete the upper division's core and concentration requirements, you have an opportunity to acquire industry-relevant knowledge of network configurations, networking hardware, network operating systems, segmentation through sub-netting and network management issues.

### A SPECIALIZED CURRICULUM TAUGHT BY EXPERIENCED PROFESSIONALS

In addition to a quality curriculum based on industry-relevant standards, AIU's BSIT with a focus in Network Administration is taught by experienced faculty, many who have worked in the fields they teach. This offers you an opportunity to learn from professionals who can share their understanding of the qualities and skills utilized in today's marketplace for network administration professionals.

#### GENERAL EDUCATION COURSES

ENGL106	English Composition I	4.5
ENGL107	English Composition II	4.5
MATH125	General College Mathematics	4.5
MATH133	College Algebra	4.5
UNIV103	Academic and Professional Success	4.5
UNIV106	Technology and Information Literacy	4.5
UNIV109	Interpersonal Communication	4.5
	Humanities (2 courses)	9
	Natural Sciences (2 courses)	9
	Social and Behavioral Sciences (2 courses)	9

**Total General Education Requirements 58.5**

#### CORE COURSES

ITCO101	Discovering Information Technology	4.5
ITCO103	Introduction to Computer and Network Hardware	4.5
ITCO105	Information Technology and Society	4.5
ITCO107	Developing Professional Communications	4.5
ITCO211	Introduction to Operating Systems	4.5
ITCO221	Fundamentals of Programming and Logic	4.5
ITCO231	Introduction to Databases	4.5
ITCO251	Network Infrastructure Basics	4.5
ITCO299	Comprehensive IT Project	4.5
ITCO361	Information Technology Security	4.5
ITCO385	Introduction to Mobile Technologies and the Internet of Things	4.5

#### CORE COURSES (CONTINUED)

ITCO391	Human/Computer Interfaces and Interactions	4.5
ITCO498	Program Capstone for IT	4.5

**Total Core Requirements 58.5**

#### ELECTIVES

Select 7 undergraduate elective courses	31.5
Select 3 undergraduate Information Technology Elective (ITCO/ITDI/ITAS/ITNA/ITSD) courses	13.5

**Total Elective Requirements 45**

#### NETWORK ADMINISTRATION COURSES

ITNA353	Routing and Switching	4.5
ITNA355	Advanced Routing and Switching	4.5
ITNA357	Network Security Management	4.5
ITNA359	Special Topics in Network Administration	4.5

**Total Concentration Requirements 18**

**Total Bachelor's Degree Requirements 180**