Summer 2017

Information Technology – Network Administration and Security

Bachelor of Applied Science Degree (BAS)

180 Credits

Overview

The BAS degree in Information Technology program is designed to prepare students for employment in a variety of information technology (IT) positions, such as network and computer systems administrators, information security analysts, or computer support specialists. Successful graduates of the BAS degree in Information Technology program will be able to:

1. Plan, implement, administer, and support appropriate information technologies and systems to help an organization achieve its goals and objectives. Information technologies and systems may include: servers, client computers, mobile devices, operating systems, network applications, local area networks, wide area networks, wireless networks, network segments, intranets, and so on.
2. Analyze the security vulnerabilities of an organization's information technology resources.
3. Plan and implement security measures and practices for an organization's information technology resources.
4. Evaluate user needs, and use those needs to plan the implementation of information technology systems that meet those needs.
5. Prepare for industry certification exams.

This degree provides students with the opportunity to acquire a deep technical foundation and competency in network administration and security. Students will learn how to plan, implement, administer, and support appropriate information technologies and systems to help an organization achieve its goals and objectives. Information technologies and systems may include: servers, client computers, mobile devices, operating systems, network applications, local area networks, wide area networks, wireless networks, network segments, intranets, and so on. Students will learn how to analyze the security vulnerabilities of an organization's IT resources, and how to plan and implement security measures and practices for those resources.

Entry Requirements:

To enter this program, students must have an associate's degree from a regionally accredited institution.

The following IT courses, or their equivalents, are strongly recommended before entering this program because they contain foundational knowledge upon which the upper-division IT courses builds:

- IT 102 Programming Fundamentals
- IT 114 CompTIA A+ Certification Preparation
- IT 131 Networking Fundamentals
- IT 160 Windows Server Administration I
- IT 190 Linux Administration I
- IT 210 Introduction to Routing and Switching
- IT 240 Windows Server Administration II

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Graduation Requirements:
Students must attain a cumulative GPA of at least 2.5.

For more information about this degree please contact the Green River IT faculty at itdegrees@greenriver.edu

Dept./No.	Course Title	Credits
Communication Skills (15 credits)		
ENGL& 101	English Composition I	5
ENGL 128 **or**	Research Writing: Science/Engineering/Business **or**	
ENGL 127 **or**	Writing: Social Sciences **or**	
ENGL 126	Writing: Humanities	5
ENGL 335	Advanced Technical Writing	5
Quantitative/Symbolic Reasoning Skills (5 credits)		
MATH 108 **or**	Contemporary Math for Information Technology **or**	
MATH& 107 or higher	Math in Society	5
Humanities (10 credits)		
CMST 338 **or**	Diversity in the Workplace **or**	
CMST 238 **or**	Intercultural Communication **or**	
	Any Humanities course approved from AA-DTA degree	5
PHIL 412 **or**	Professional Ethics **or**	
PHIL 112 **or**	Ethics in the Workplace **or**	
	Any Humanities course from AA-DTA degree	5
Social Sciences (10 credits)		
BUS& 101 **or**	Introduction to Business **or**	
	Any Social Science course from AA-DTA degree.	5
CJ& 240 **or**	Introduction to Forensic Science **or**	
	Any Social Science course from AA-DTA degree.	5
Natural Sciences (10 credits)		
	Five credits Natural Science lab course in List A from AA-DTA degree	5
	Five credits of Natural Science List A or List B course from AA-DTA degree	5
Additional General Education (10 credits)		
	Ten credits from Humanities, Social Science, or Natural Science courses from AA-DTA degree.	10
Core Requirements (55 credits)		
IT 310	Routing and Switching in the Enterprise	5
IT 335	Network Security Foundations and Policies	5
IT 340	Network Security and Firewalls	5
IT 344	Virtualization and Storage	5

IT 360	Introduction to Computer Forensics and Vulnerability Assessment	5
IT 370	Cloud System Operations: Microsoft Azure	5
IT 385	Scripting for Windows and Linux	5
IT 390	Mobile Devices and Wireless Networking-Enterprise	5
IT 410	Designing and Supporting Computer Networks	5
IT 460	Threat Analysis	5
IT 490	Capstone: Networking and Security	5

Information Technology Electives (45 credits)

Information Technology or Computer Science courses numbered 100 or higher	45

Electives (20 credits)

20 credits from any courses numbered 100 or higher	20