



COMPUTER INFORMATION TECHNOLOGY

SOFTWARE DEVELOPMENT

ASSOCIATE IN APPLIED SCIENCE

Your Butler experience will prepare you to focus on the general writing and implementation of generic and customized programs to drive operating systems and will prepare you to apply the methods and procedures of software design and programming to software installation and maintenance.

Third Semester

___ASP, PHP, and Databases	(IN 118)	3
___Computer Prog & Databases	(IN 181)	3

Fourth Semester

___C #	(IN 201)	3
___Java Programming	(IN 211)	3
___Info Technology Ethics	(IN 275)	3
___Computer Science Capstone	(IN 299)	3

A total of 63 credit hours is required for this degree. In addition to the 15 credit hours of general education requirements and 33 credit hours of required courses, you can choose 15 credit hours from the list of related electives below:

Related Electives

___Supporting Desktop Systems	(IN 106)	3
___Flash Fundamentals	(IN 115)	3
___Network Clients	(IN 130)	3
___Network Servers	(IN 131)	3
___Supporting Networked Computers	(IN 133)	3
___Advanced Database Prog	(IN 182)	3
___Intro to Programming w/C++	(IN 200)	3
___Advanced Java Programming	(IN 214)	3
___Flash ActionScript	(IN 216)	3
___Introduction to SQL	(IN 228)	3
___Linux on the Desktop	(IN 240)	3
___Linux as a Server	(IN 249)	3
___Prog for Wireless & Handheld	(IN 261)	3
___Visual Basic.NET	(IN 264)	3

General Education Requirements

Course	Hours
Communications	9
___English Comp I (EG 101)	3
___Public Speaking (SP 100)	3
___Technical Writing (EG 112)	3
Science, Math and Computer Science	3
___Math Requirement (MA 114 or above)	3
Social/Behavioral Science Requirement	3
___Sociology (BS 105)	3
or	
___General Psychology (BS 160)	3
Required Courses	
First Semester	
___Intro to Programming (IN 105)	3
___HTML (IN 112)	3
Second Semester	
___PC Visual Basic (IN 108)	3
___JavaScript (IN 113)	3
___XML Programming (IN 116)	3

Software Development

Career Program
Degree Offered: Associate in Applied Science
Credits Required: 63
Contact: Skyler Lovelace, Lead Instructor, at 316.218.6229

Prior to Admission

Students enrolling in Computer Information Technology programs need to be computer literate and able to manipulate basic computer applications. Students need to take the ASSET. Those who need development courses need to take them prior to or at the same time they enroll in program courses.

Related Programs

Web Development Specialist,
Web Development Business Specialist,
Internetworking Management,
Networking and Systems Specialist,
Networking and Systems Business Specialist,
Digital Media Specialist,
Digital Media Business Specialist,
Windows Administration
Database Administration and Development,

After Butler

Recent graduates hold positions as computer programmers and related positions.

Median Wage for Computer Programmers in South Central Kansas is \$57,845 per year. (Source: Workforce Planning Guide & Wage Survey, Local Area IV 2003 Edition, KDHR.)

Additional Costs

Additional lab fees are assessed to each program course and subject to change.

Software Development

Transfer Program
Degree Offered: Associate in Science
Credits Required: 63
Contact: Skyler Lovelace, Lead Instructor,
at 316.218.6229

Prior to Admission

Students enrolling in Computer Information Technology programs need to be computer literate and able to manipulate basic computer applications. Students need to take the ASSET. Those who need development courses need to take them prior to or at the same time they enroll in program courses.

Related Programs

Web Development Specialist,
Web Development Business Specialist,
Internetworking Management,
Networking and Systems Specialist,
Networking and Systems
Business Specialist,
Digital Media Specialist,
Digital Media Business Specialist,
Windows Administration
Database Administration
and Development,

After Butler

Recent graduates hold positions as computer programmers and related positions.

Median Wage for Computer Programmers in South Central Kansas is \$57,845 per year. (Source: Workforce Planning Guide & Wage Survey, Local Area IV 2003 Edition, KDHR.)

Additional Costs

Additional lab fees are assessed to each program course and subject to change.

SOFTWARE DEVELOPMENT

ASSOCIATE IN SCIENCE

Your Butler experience will prepare you to focus on the general writing and implementation of generic and customized programs to drive operating systems and to apply the methods and procedures of software design and programming to software installation and maintenance.

General Education Requirements

Course	Hours
Communications	9
___English Comp I (EG 101)	
___English Comp II (EG 102)	
___Public Speaking or Interpersonal Communications (SP 100, SP 102)	

Science, Math and Computer Science	11
___Math Requirement (MA 131 or above)	
___Lab Science Requirement	
___Computer Science Requirement	

Social/Behavioral Science Requirement	6
___One Social Science Course	
___One Behavioral Science Course	

Humanities/Fine Arts	6
___Humanities Requirement	
___Fine Arts Requirement	

Physical Education	1
___Physical Education Requirement	

Required Courses:	Hours
___Accounting I (BA 126)	3
___Accounting II (BA 127)	3
___Introduction to Programming (IN 105)	3
___PC Visual Basic Programming (IN 108)	3
___XML Programming (IN 116)	3
___Intro to Programming w/C++ (IN 200)	3
___C# (IN 201)	3
___Computer Science Electives	9

Related Electives:	Hours
___Supporting Desktop Systems (IN 106)	3
___HTML (IN 112)	3
___JavaScript (IN 113)	3
___Flash Fundamentals (IN 115)	3
___ASP, PHP, and Databases (IN 118)	3
___Network Clients (IN 130)	3
___Network Servers (IN 131)	3
___Supporting Networked Computers (IN 133)	3
___Computer Prog & Databases (IN 181)	3
___Advanced Database Prog (IN 182)	3
___Java Programming (IN 211)	3
___Advanced Java Programming (IN 214)	3
___Flash ActionScript (IN 216)	3
___Introduction to SQL (IN 228)	3
___Linux on the Desktop (IN 240)	3
___Linux as a Server (IN 249)	3
___Prog for Wireless & Handheld (IN 261)	3
___Visual Basic.NET (IN 264)	3
___Info Technology Ethics (IN 275)	3
___Computer Science Capstone (IN 299)	3

A total of 63 credit hours is required for this degree. In addition to the 33 credit hours of general education requirements and 30 credit hours of required courses, the Computer Science Electives may include Cooperative Education I, II, III, IV (IN 197,198,297,298).

If Required Courses are used to fulfill General Education Requirements, Related Electives must be used to fulfill equivalent number of hours.

WEB DEVELOPMENT SPECIALIST

ASSOCIATE IN APPLIED SCIENCE

Your Butler experience will prepare you to develop and maintain web servers and their hosted web pages and to function as designated webmaster. These skills are foundational for jobs such as web designer, Internet developer, interface designer, HTML scripter, and web site coordinator. Web development skills are used in a variety of jobs, including corporate communications, education, architecture, advertising.

General Education Requirements

Course		Hours
Communications		
___English Comp I	(EG 101)	3
___Public Speaking	(SP 100)	3
___Technical Writing	(EG 112)	3
Science, Math and Computer Science		
___Math Requirement	(MA 114 or above)	3
Social/Behavioral Science Requirement		
Humanities/Fine Arts		
One course from the following		
___Sociology	(BS 105)	3
___General Psychology	(BS 160)	3
___Art Appreciation	(AR 100)	3
Required Courses		
First Semester		
___Intro to Programming	(IN 105)	3
___HTML	(IN 112)	3
___Intro to Multimedia Design	(IN 124)	3
___Web Graphics	(IN 135)	3

Second Semester

___JavaScript	(IN 113)	3
___Dreamweaver	(IN 114)	3
___XML Programming	(IN 116)	3

Third Semester

___ASP, PHP, and Databases	(IN 118)	3
___Java Programming	(IN 211)	3
___Info Technology Ethics	(IN 275)	3
___Intro to Marketing	(BA 140)	3

Fourth Semester

___Info Tech Business Solutions	(IN 290)	3
___Computer Science Capstone	(IN 299)	3

A total of 63 credit hours is required for this degree. In addition to the 15 credit hours of general education requirements and 39 credit hours of required courses, you can choose 9 credit hours from the list of related electives below.

Related Electives

___Flash Fundamentals	(IN 115)	3
___Flash ActionScript	(IN 216)	3
___Internships	(IN 193, 194)	1-3
___Cooperative Ed I, II, III, IV	(IN 197, 198, 297, 298)	2-6
___Special Topics	(IN 253)	3
___Special Topics	(IN 254)	3

WEB DEVELOPMENT SPECIALIST

CERTIFICATE

Your Butler experience will prepare you to develop and maintain web servers and their hosted web pages and to function as designated webmaster. These skills are foundational for jobs such as web designer, Internet developer, interface designer, HTML scripter, and web site coordinator. Web development skills are used in a variety of jobs, including corporate communications, education, architecture, and advertising.

Required Courses		Hours
___Introduction to Programming	(IN 105)	3
___HyperText Markup Language	(IN 112)	3
___JavaScript	(IN 113)	3

___Dreamweaver	(IN 114)	3
___XML Programming	(IN 116)	3
___ASP, PHP, and Databases	(IN 118)	3
___Web Graphics	(IN 135)	3
___Intro to Multimedia Design	(IN 124)	3
___Java Programming	(IN 211)	3
___Information Technology Ethics	(IN 275)	3
___Computer Science Capstone	(IN 299)	3

Certificate requires 33 credit hours.

Web Development Specialist

Transfer Program
Degree Offered: Associate in Science
Credits Required: 63
Contact: Larry Evans, Lead Instructor, at 316.218.6142

Articulation Agreements

Fort Hays State University

Accreditation

Butler is an approved CISCO Academy.

Additional Costs

Additional lab fees are assessed to each program course and subject to change.

Prior to Admission

Students enrolling in Computer Information Technology programs need to be computer literate and able to manipulate basic computer applications. Students need to take the ASSET. Those who need development courses need to take them prior to or at the same time they enroll in program courses.

Related Programs

Database Administration and Development, Digital Media Business Specialist, Digital Media Specialist, Internetworking Management, Networking and Systems Business Specialist, Networking and Systems Specialist, Software Development, Windows Administration

After Butler

Recent graduates hold entry-level positions as Network and Computer Systems Administrators

Median Wage for Network and Computer Systems Administrators in South Central Kansas is \$45,718 per year. (Source: Workforce Planning Guide & Wage Survey, Local Area IV 2003 Edition, KDHR)

Web Development Specialist

Transfer Program
Degree Offered: Associate in Science
Credits Required: 63
Contact: Larry Evans, Lead Instructor, at
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Prior to Admission

Students enrolling in Computer Information Technology programs need to be computer literate and able to manipulate basic computer applications. Students need to take the ASSET. Those who need development courses need to take them prior to or at the same time they enroll in program courses.

Related Programs

Database Administration and Development,
Digital Media Business Specialist,
Digital Media Specialist,
Internetworking Management,
Networking and Systems Business Specialist,
Networking and Systems Specialist,
Software Development,
Windows Administration

After Butler

Recent graduates hold entry-level positions as Network and Computer Systems Administrators

Median Wage for Network and Computer Systems Administrators in South Central Kansas is \$45,718 per year. (Source: Workforce Planning Guide & Wage Survey, Local Area IV 2003 Edition, KDHR)

WEB DEVELOPMENT BUSINESS SPECIALIST

CERTIFICATE

Your Butler experience will prepare you to develop and maintain web servers and their hosted web pages and to function as designated webmaster. These skills are foundational for jobs such as web designer, Internet developer, interface designer, HTML scripter, and web site coordinator. Web development skills are used in a variety of jobs, including corporate communications, education, architecture, and advertising. This certificate includes additional work in business and marketing, so you will be prepared to apply business strategies to the Information Technology workplace.

Required Business Courses

___ Small Business Management	(BA 109)	3
___ Accounting I	(BA 126)	3
___ Accounting II	(BA 127)	3
___ Introduction to Marketing	(BA 140)	3
___ Information Technology Business Solutions	(IN 290)	3

Required Information Technology Courses

___ Introduction to Programming	(IN 105)	3
___ HyperText Markup Language	(IN 112)	3
___ JavaScript	(IN 113)	3
___ Dreamweaver	(IN 114)	3
___ XML Programming	(IN 116)	3
___ ASP, PHP, and Databases	(IN 118)	3
___ Web Graphics	(IN 135)	3
___ Intro to Multimedia Design	(IN 124)	3
___ Java Programming	(IN 211)	3
___ Information Technology Ethics	(IN 275)	3
___ Computer Science Capstone	(IN 299)	3

Certificate requires 48 credit hours.

INTERNETWORKING MANAGEMENT

ASSOCIATE IN APPLIED SCIENCE

Your Butler experience will prepare you to oversee and regulate the computer system and performance requirements of an entire organization or network of satellite users. Instruction in performance balancing; redundancy; Cisco router configuration; Local Area Network (LAN) and Wide Area Network (WAN). This program provides training for the following certifications: Cisco CCNA and CompTIA A+.

General Education Requirements

Course	Hours
Communications	
___English Comp I (EG 101)	3
___Technical Writing (EG 112)	3
___Public Speaking (SP 100)	3

Science, Math and Computer Science

___Math Requirement (MA 114 or above)	3
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Social/Behavioral Science Requirement

___Sociology (BS 105) OR	3
___General Psychology (BS 160)	3

Required Courses

First Semester

___Intro to Programming (IN 105)	3
___Supporting Desktop Systems (IN 106)	3
___Supporting Networked Computers (IN 133)	3

Second Semester

___HTML (IN 112)	3
___Internetworking Fund (IN 245)	3
___Router Technologies (IN 246)	3

Third Semester

___Routing & Switching (IN 247)	3
___Internetworking Protocols (IN 248)	3

Fourth Semester

___Network Clients (IN 130)	3
___Network Servers (IN 131)	3
___Princ of Info Assurance (IN 2001)	3
___Small Bus Mgmt (BA 109) OR	
___Intro to Marketing (BA 140)	3

A total of 63 credit hours is required for this degree. In addition to the 15 credit hours of general education requirements and 36 credit hours of required courses, you can choose 12 credit hours of Technical electives.

Technical Electives

___PC Visual Basic Programming (IN 108)	3
___Enterprise Networking (IN 140)	3
___Network Directory Services I (IN 150)	3
___JAVA Programming (IN 211)	3
___JAVA Prog & Web Design (IN 214)	3
___Intro to Database Mgmt Sys (IN 223)	3
___Client Server Application Dev (IN 224)	3
___Networking Management (IN 237)	3
___Linux on the Desktop (IN 240)	3
___Linux as a Server (IN 249)	3
___Network Directory Services II (IN 250)	3

Students can achieve additional certifications by selecting the following technical electives:

MCSA

Intro to Database Management (IN 223)	
Network Management (IN 237)	

MCSE

Enterprise Networking (IN 140)	
Network Directory I (IN 150)	
Intro to Database Management (IN 223)	
Network Management (IN 237)	
Network Directory Services II (IN 250)	

MCDBA

Enterprise Networking I (IN 140)	
Intro to Database Management (IN 223)	
Client Server Application Dev (IN 224)	

CompTIA Linux +

Linux on the Desktop (IN 240)	
Linux as a Server (IN 249)	

Internetworking Management

Career Program
Degree Offered:
Associate in Applied Science
Credits Required: 63
Contact: Larry Evans, Lead Instructor, at 316.218.6142

Articulation Agreements

Fort Hays State University

Accreditation

Butler is an approved CISCO Academy.

Additional Costs

Additional lab fees are assessed to each program course and subject to change.

Prior to Admission

Students enrolling in Computer Information Technology programs need to be computer literate and able to manipulate basic computer applications. Students need to take the ASSET. Those who need development courses need to take them prior to or at the same time they enroll in program courses.

Related Programs

Database Administration and Development,
Digital Media Business Specialist,
Digital Media Specialist,
Networking and Systems Business Specialist,
Networking and Systems Specialist,
Software Development,
Web Development Business Specialist,
Web Development Specialist,
Windows Administration

After Butler

Recent graduates hold entry-level positions as Network and Computer Systems Administrators

Median Wage for Network and Computer Systems Administrators in South Central Kansas is \$45,718 per year. (Source: Workforce Planning Guide & Wage Survey, Local Area IV 2003 Edition, KDHR.)

NETWORKING AND SYSTEMS SPECIALIST

CERTIFICATE

Your Butler experience will prepare you to oversee and regulate the computer system and performance requirements of an entire organization or network of satellite users. Instruction in performance balancing: redundancy; Cisco router configuration; Local Area Network (LAN) and Wide Area Network (WAN).

___ Supporting Networked Computers	(IN 133)	3
___ Intro to Database Mgmt Systems	(IN 223)	3
___ Networking Management	(IN 237)	3
___ Internetworking Fundamentals	(IN 245)	3
___ Router Technologies	(IN 246)	3
___ Routing and Switching	(IN 247)	3
___ Internetworking Protocols	(IN 248)	3
___ Information Technology Ethics	(IN 275)	3

Certificate requires 33 credit hours.

Required Courses	Hours	
___ Supporting Desktop Systems	(IN 106)	3
___ Network Clients	(IN 130)	3
___ Network Servers	(IN 131)	3

NETWORKING AND SYSTEMS BUSINESS SPECIALIST

CERTIFICATE

Your Butler experience will prepare you to oversee and regulate the computer system and performance requirements of an entire organization or network of satellite users. Instruction in performance balancing: redundancy; Cisco router configuration; Local Area Network (LAN) and Wide Area Network (WAN).

This certificate includes additional work in business and marketing, so you will be prepared to apply business strategies to the Information Technology workplace.

Required Information Technology Courses		
___ Supporting Desktop Systems	(IN 106)	3
___ Network Clients	(IN 130)	3
___ Network Servers	(IN 131)	3
___ Supporting Networked Computers	(IN 133)	3
___ Intro to Database Mgmt Systems	(IN 223)	3
___ Networking Management	(IN 237)	3
___ Internetworking Fundamentals	(IN 245)	3
___ Router Technologies	(IN 246)	3
___ Routing and Switching	(IN 247)	3
___ Internetworking Protocols	(IN 248)	3
___ Information Technology Ethics	(IN 275)	3

Certificate requires 48 credit hours.

Required Business Courses		
___ Small Business Management	(BA 109)	3
___ Accounting I	(BA 126)	3
___ Accounting II	(BA 127)	3
___ Introduction to Marketing	(BA 140)	3
___ Information Technology Business Solutions	(IN 290)	3

Internetworking Management

Career Program
Degree Offered:
Associate in Applied Science
Credits Required: 63
Contact: Larry Evans, Lead Instructor, at
316.218.6142

Articulation Agreements

Fort Hays State University

Accreditation

Butler is an approved CISCO Academy.

Additional Costs

Additional lab fees are assessed to each program course and subject to change.

Prior to Admission

Students enrolling in Computer Information Technology programs need to be computer literate and able to manipulate basic computer applications. Students need to take the ASSET. Those who need development courses need to take them prior to or at the same time they enroll in program courses.

Related Programs

Database Administration and Development,
Digital Media Business Specialist,
Digital Media Specialist,
Networking and Systems Business Specialist,
Networking and Systems Specialist,
Software Development,
Web Development Business Specialist,
Web Development Specialist,
Windows Administration

After Butler

Recent graduates hold entry-level positions as Network and Computer Systems Administrators

Median Wage for Network and Computer Systems Administrators in South Central Kansas is \$45,718 per year. (Source: Workforce Planning Guide & Wage Survey, Local Area IV 2003 Edition, KDHR.)

DIGITAL MEDIA SPECIALIST

ASSOCIATE IN APPLIED SCIENCE

Your Butler experience will prepare you to use computer applications and visual and sound imaging technologies to manipulate images and information originating as film, video, still photographs, digital copy, soundtracks, and physical objects in order to communicate messages and simulate real-world content.

General Education Requirements

Course	Hours
Communications	9
___ English Comp I (EG 101)	3
___ Public Speaking (SP 100)	3
___ One other course (EG 102 or EG 112)	3
Science, Math and Computer Science	3
___ Math Requirement (MA 114 or above)	3

Social/Behavioral Science Requirement

Humanities/Fine Arts	3
One course from the following	
___ Sociology (BS 105)	3
___ General Psychology (BS 160)	3

Required Courses

First Semester	
___ Intro to Programming (IN 105)	3
___ Flash Fundamentals (IN 115)	3
___ Intro to Multimedia Design (IN 124)	3
___ Web Graphics (IN 135)	3
___ 2D Design (AR 121)	3

Second Semester

___ HTML (IN 112)	3
___ Digital Video Editing (IN 117)	3
___ Digital Audio (IN 119)	3
___ Logo Design w/Illustrator (IN 123)	3

Third Semester

___ Flash ActionScript (IN 216)	3
___ 2D Animation & Cartooning I (IN 217)	3
___ Info Technology Ethics (IN 275)	3
___ 3D Animation (BA 128)	3

Fourth Semester

___ Multimedia Authoring Tools (IN 208)	3
___ Computer Science Capstone (IN 299)	3

A total of 63 credit hours is required for this degree. In addition to the 15 credit hours of general education requirements and 45 credit hours of required courses, you can choose 3 credit hours from the list of related electives below:

Related Electives	3
___ Dreamweaver (IN 114)	3
___ XML Programming (IN 116)	3
___ ASP, PHP, and Databases (IN 118)	3
___ Info Tech Business Solutions (IN 290)	3
___ 3D Animation II (BA 228)	3
___ Internships (IN 193, 194)	1-3
___ Cooperative Ed I, II, III, IV (IN 197, 198, 297, 298)	2-6
___ Special Topics (IN 253)	3
___ Special Topics (IN 254)	3

Digital Media Specialist

Career Program
Degree Offered: Associate in Applied Science
Credits Required: 63
Contact: Skyler Lovelace, Lead Instructor, at 316.218.6229

Prior to Admission

Students enrolling in Computer Information Technology programs need to be computer literate and able to manipulate basic computer applications. Students need to take the ASSET. Those who need development courses need to take them prior to or at the same time they enroll in program courses.

Related Programs

Database Administration and Development,
Networking and Systems Business Specialist,
Networking and Systems Specialist,
Software Development,
Web Development Business Specialist,
Web Development Specialist,
Windows Administration

Median Wage for Digital Media Artists and Animators in South Central Kansas is \$40,040 per year. (Source: Workforce Planning Guide & Wage Survey, Local Area IV 2003 Edition, KDHR.)

Additional Costs

Additional lab fees are assessed to each program course and subject to change.

Digital Media Certificate

Certificate of Completion in
Digital Media

Credits Required: 36

Contact: Skyler Lovelace, Lead Instructor,
at 316.218.6229

Program Information

This certificate program can be converted to the Digital Media Associate in Applied Science or Digital Media Associate in Science degrees by adding the appropriate general education courses which will add to your employability and future income. Cooperative Education opportunities will also add to your income potential.

Median Wage for Digital Media Artists and Animators in South Central Kansas is \$40,040 per year. (Source: Workforce Planning Guide & Wage Survey, Local Area IV 2003 Edition, KDHR.)

Additional Costs

Additional lab fees are assessed to each program course and subject to change.

DIGITAL MEDIA SPECIALIST

CERTIFICATE

Your Butler experience will prepare you to use computer applications and related visual and sound imaging techniques to manipulate images and information originating from film, video, still photographs, digital copy, soundtracks, and physical objects in order to communicate messages and simulate real-world content.

Required Courses

		Hours
___Flash Fundamentals	(IN 115)	3
___Digital Video Editing	(IN 117)	3
___Digital Audio	(IN 119)	3
___Logo Design w/ Illustrator	(IN 123)	3

___Intro to Multimedia Design	(IN 124)	3
___Web Graphics	(IN 135)	3
___Multimedia Authoring Tools	(IN 208)	3
___2D Animation & Cartooning	(IN 217)	3
___Information Technology Ethics	(IN 275)	3
___Computer Science Capstone	(IN 299)	3
___Two-Dimensional Design	(AR 121)	3
___3D Animation I	(BA 128)	3

Certificate requires 36 credit hours.

DIGITAL MEDIA BUSINESS SPECIALIST

CERTIFICATE

Your Butler experience will prepare you to use computer applications and related visual and sound imaging techniques to manipulate images and information originating from film, video, still photographs, digital copy, soundtracks, and physical objects in order to communicate messages and simulate real-world content.

This certificate includes additional work in business and marketing, so you will be prepared to apply business strategies to the Information Technology workplace.

Required Business Courses

___Small Business Management	(BA 109)	3
___Accounting I	(BA 126)	3
___Accounting II	(BA 127)	3
___Introduction to Marketing	(BA 140)	3
___Information Technology Business Solutions	(IN 290)	3

Required Information Technology Courses

___Flash Fundamentals	(IN 115)	3
___Digital Video Editing	(IN 117)	3
___Digital Audio	(IN 119)	3
___Logo Design w/ Illustrator	(IN 123)	3
___Intro to Multimedia Design	(IN 124)	3
___Web Graphics	(IN 135)	3
___Multimedia Authoring Tools	(IN 208)	3
___2D Animation & Cartooning	(IN 217)	3
___Information Technology Ethics	(IN 275)	3
___Computer Science Capstone	(IN 299)	3
___Two-Dimensional Design	(AR 121)	3
___3D Animation I	(BA 128)	3

Certificate requires 51 credit hours.

WINDOWS ADMINISTRATION

ASSOCIATE IN APPLIED SCIENCE

Your Butler experience will prepare you to manage the computer operations and networks based on windows software. Includes instruction in computer hardware and software applications; local area (LAN) and wide area (WAN) networking; principles of information systems security; disc space and traffic load monitoring; data backup; resource allocation; and setup and take down procedures. This program provides training for the following certifications: CompTIA A+ and Microsoft Certified Systems Administrator (MCSA).

General Education Requirements

Course	Hours
Communications	
___English Comp I (EG 101)	3
___Technical Writing (EG 112)	3
___Public Speaking (SP 100) or Interpersonal Communication (SP 102)	3
Science, Math and Computer Science	
___Math Requirement (MA 114 or above)	3
Social/Behavioral Science Requirement	
___Sociology (BS 105) OR	3
___General Psychology (BS 160)	3
Required Courses	
First Semester	
___Intro to Programming (IN 105)	3
___Supporting Desktop Systems (IN 106)	3
___Supporting Networked Computers (IN 133)	3
Second Semester	
___Network Servers** (IN 131)	3
___Intro to Database Mgmt** (IN 223)	3
___Internetworking Fund* (IN 245)	3
___Router Technologies* (IN 246)	3
Third Semester	
___HTML (IN 112)	3
___Network Clients** (IN 130)	3
___Network Management** (IN 237)	3
Fourth Semester	
___Princ of Info Assurance (IN 2001)	3
___Small Bus Mgmt (BA 109) OR	
___Intro to Marketing (BA 140)	3

* Denotes CISCO Certification Classes

** Denotes MCSA Certification Classes

A total of 63 credit hours is required for this degree. In addition to the 15 credit hours of general education requirements and 36 credit hours of required courses, you can choose 12 credit hours of Technical electives.

Technical Electives

12

Any IN course.

Students can achieve additional certifications by selecting the following technical electives:

CCNA	
Routing and Switching	(IN 247)
Internetworking Protocols	(IN 248)
MCSE	
Enterprise Networking I	(IN 140)
Network Directory Services I	(IN 150)
Network Directory Services II	(IN 250)
CompTIA Linux +	
Linux on the Desktop	(IN 240)
Linux as a Server	(IN 249)
MCDBA	
Enterprise Networking I	(IN 140)
Intro to Database Management	(IN 223)
Client Server Application Dev.	(IN 224)

Windows Administration

Career Program
Degree Offered: Associate in Applied Science
Credits Required: 63
Contact: Larry Evans, Lead Instructor, at 316.218.6142

Prior to Admission

Students enrolling in Computer Information Technology programs need to be computer literate and able to manipulate basic computer applications. Students need to take the ASSET. Those who need development courses need to take them prior to or at the same time they enroll in program courses.

Related Programs

Database Administration and Development,
Digital Media Business Specialist,
Digital Media Specialist,
Internetworking Management Networking and Systems Business Specialist,
Networking and Systems Specialist,
Software Development,
Web Development Business Specialist,
Web Development Specialist,

Median Wage for Network Systems and Data Communications Analysts in South Central Kansas is \$56,555 per year. (Source: Workforce Planning Guide & Wage Survey, Local Area IV 2003 Edition, KDHR.)

Additional Costs

Additional lab fees are assessed to each program course and subject to change.

Database Administration & Development

Career Program
Degree Offered: Associate in Applied Science in Database Administration & Development
Credits Required: 63
Contact: Larry Evans, Lead Instructor, at 316.218.6142

Prior to Admission

Students enrolling in Computer Information Technology programs need to be computer literate and able to manipulate basic programs in Word, Access, and Data Base. Students need to take the ASSET. Those who need development courses need to take them prior to or at the same time they enroll in program courses.

Related Programs

Digital Media Business Specialist, Digital Media Specialist, Internetworking Management Networking and Systems Business Specialist, Networking and Systems Specialist, Software Development, Web Development Business Specialist, Web Development Specialist, Windows Administration

Median Wage for Database Administrators in South Central Kansas is \$58,262 per year. (Source: Workforce Planning Guide & Wage Survey, Local Area IV 2003 Edition, KDHR.)

Additional Costs

Additional lab fees are assessed to each program course and subject to change.

DATABASE ADMINISTRATION & DEVELOPMENT

ASSOCIATE IN APPLIED SCIENCE

Your Butler experience will prepare you to design and manage the construction of databases and related software programs and applications, including the linking of individual data sets to create complex searchable databases (warehousing) and the use of analytical search tools (mining). This program provides training for the following certifications: CompTIA A+ and Microsoft Certified Database Administrator (MCDBA).

General Education Requirements

Course		Hours
Communications		
___English Comp I	(EG 101)	3
___Technical Writing	(EG 112)	3
___Public Speaking	(SP 100)	3

Science, Math and Computer Science		
___Math Requirement	(MA 114 or above)	3

Social/Behavioral Science Requirement		
___Sociology	(BS 105) OR	3
___General Psychology	(BS 160)	3

Required Courses

First Semester		
___Intro to Programming	(IN 105)	3
___Supporting Desktop Systems	(IN 106)	3
___Supporting Networked Computers	(IN 133)	3

Second Semester		
___Network Servers**	(IN 131)	3
___Intro to Database Mgmt**	(IN 223)	3
___Internetworking Fund*	(IN 245)	3
___Router Technologies*	(IN 246)	3

Third Semester		
___HTML	(IN 112)	3
___Enterprise Networking I**	(IN 140)	3
___Client Server App Dev**	(IN 224)	3

Fourth Semester		
___Princ of Info Assurance	(IN 2001)	3
___Small Bus Mgmt	(BA 109) OR	
___Intro to Marketing	(BA 140)	3

* Denotes CISCO Certification Classes

** Denotes MCDBA Certification Classes

A total of 63 credit hours is required for this degree. In addition to the 15 credit hours of general education requirements and 36 credit hours of required courses, you can choose 12 credit hours of Technical electives.

Technical Electives

12

One course **must** be selected from the following list:

PC Visual Basic Programming	(IN 108)
XML Programming	(IN 116)
Active Server Pages.NET	(IN 118)
Computer Prog & Databases	(IN 181)
Object Oriented Prog w/ C#	(IN 201)
Java Programming	(IN 211)

Remaining Technical Electives can be any IN course.

Students can achieve additional certifications by selecting the following technical electives:

CCNA

Routing and Switching	(IN 247)
Internetworking Protocols	(IN 248)

MCSA

Network Clients	(IN 130)
Network Management	(IN 237)

MCSE

Network Clients	(IN 130)
Network Management	(IN 237)
Network Directory Services I	(IN 150)
Network Directory Services II	(IN 250)

CompTIA Linux +

Linux on the Desktop	(IN 240)
Linux as a Server	(IN 249)