



# Computer Information Technology

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

## MCTS

- Windows Server 2008 Active Directory Configuration
  - \_\_Network Management (IN 237)
- Windows Server 2008 Applications Platform Configuration
  - \_\_Enterprise Networking I (IN 140)

## MCITP

- Database Administrator
  - \_\_Designing a Database Server Infrastructure (IN 268)
  - \_\_Optimizing and Maintaining a Database Solution (IN 269)
- Windows Server 2008 Administrator
  - \_\_Enterprise Networking I (IN 140)
  - \_\_Networking Management (IN 237)
  - \_\_Network Directory Services I (IN 150)
- Windows Server 2008 Enterprise Administrator
  - \_\_Enterprise Networking I (IN 140)
  - \_\_Networking Management (IN 237)
  - \_\_Network Directory Services II (IN 250)

## CompTIA Linux +

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

A total of 63 credit hours is required for this degree. In addition to the 15 credit hours of general education requirements and 42 credit hours of required courses, choose 6 credit hours of Technical electives.

## Database Administration

Career Program  
Degree Offered: Associate in Applied Science in Database Administration  
Credits Required: 63  
Contact: Steve Strom, Lead Instructor, at 316.218.6143

## Prior to Admission

Students enrolling in Computer Information Technology programs need to be computer literate and able to manipulate basic computer applications. Because of the high level of math and reading required in Information Technology, students should have ASSET math and reading scores of 39 or ACT scores of 18 in English and 21 in Math.

## Articulation Agreements

K-State at Salina

## Related Programs

Database Administration  
Digital Media  
Digital Media Specialist  
Digital Media Business Specialist  
e-Business Application  
Information Assurance & Digital Forensics  
Internetworking Management  
Internetworking Management Business Specialist  
Software Development  
Web Development  
Web Development Specialist  
Web Development Business Specialist  
Windows Administration

## Recommended Course Sequence

Some courses are offered only in the spring or fall semesters. Ask your advisor or instructor for details as you plan your class schedule.

**Wages:** Salary/hourly rates are dependent on skill level, experience and location.

## Additional Costs

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

## DATABASE ADMINISTRATION 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+, MCITP: Database Administrator, MCTS: Windows Vista Configuration, MCTS: Windows Server 2008 Networking Infrastructure Configuration, MCTS: SQL Server 2005.

### General Education Requirements 15 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

- \_\_Sociology (BS 105) OR 3
- \_\_General Psychology (BS 160) 3

### Required Courses 42 Hours

#### First Semester

- \_\_Programming Concepts (IN 105) 3
- \_\_Supporting Desktop Systems (IN 106) 3
- \_\_Supporting Networked Comp. (IN 133) 3

#### Second Semester

- \_\_Network Servers\*\* (IN 131) 3
- \_\_Network Clients (IN 130) 3
- \_\_Networking and Architectures (IN 2000) 3
- \_\_Introduction to SQL Language (IN 228) 3

#### Third Semester

- \_\_XHTML w/CSS (IN 112) 3
- \_\_Designing DB Serv. Infrastructure (IN 268) 3
- \_\_Optimizing/Maintaining Data Sol. (IN 269) 3
- \_\_SQL Server 2005 Implementation (IN 238) 3
- \_\_C# (IN201) 3

#### Fourth Semester

- \_\_Princ of Info Assurance (IN 2001) 3
- \_\_Small Bus Mgmt (BA 109) OR 3
- \_\_Intro to Marketing (BA 140) 3

### Technical Electives 6 Hours

Any IN courses



# DIGITAL MEDIA ASSOCIATE IN APPLIED SCIENCE

Your Butler experience will prepare you to use graphics, sound, and video software to manipulate images and information originating as film, video, still photographs, digital copy, soundtracks, and physical objects. Students create multimedia projects designed to inform, educate and entertain.

## General Education Requirements

### Course 15 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
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#### Social/Behavioral Science/Fine Arts 3

One course from the following

__Sociology	(BS 105)	3
__General Psychology	(BS 160)	3
__Art Appreciation	(AR 100)	3

### Required Courses 45 Hours

#### First Semester

__Cyber Marketing	(BA 219)	3
__Programming Concepts	(IN 105)	3
__Flash Fundamentals	(IN 115)	3
__Digital Graphics w/Photoshop	(IN 122)	3
__Intro to Digital Design	(IN 124)	3

#### Second Semester

__XHTML w/CSS	(IN 112)	3
__Digital Video Editing	(IN 117)	3
__Digital Audio	(IN 119)	3
__Logo Design w/Illustrator	(IN 123)	3

#### Third Semester

__3D Computer Animation I	(BA 128)	3
__Flash ActionScript	(IN 216)	3
__2D Animation & Cartooning I	(IN 217)	3
__Info Technology Ethics	(IN 275)	3

#### Fourth Semester

__Digital Media Publishing Tools	(IN 208)	3
__Digital Media Capstone	(IN 299)	3

### Related Electives 3

__3D Computer Animation II	(BA 228)	3
__Dreamweaver	(IN 114)	3
__XML Programming	(IN 116)	3
__Info Tech Business Solutions	(IN 290)	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

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, choose 3 credit hours from the list of Related Electives below:

## Digital Media

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. Because of the high level of math and reading required in Information Technology, students should have ASSET math and reading scores of 39 or ACT scores of 18 in English and 21 in Math.

## Related Programs

Database Administration

Digital Media

Digital Media Specialist

Information Assurance & Digital Forensics

Internetworking Management

Software Development

Web Development

Web Development Specialist

Windows Administration

## Recommended Course Sequence

Some courses are offered only in the spring or fall semesters. Ask your advisor or instructor for details as you plan your class schedule.

**Wages:** Salary/hourly rates are dependent on skill level, experience and location.

## 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 graphics, sound, and video software to manipulate images and information originating from film, video, still photographs, digital copy, soundtracks, and physical objects. Students create multimedia projects designed to inform, educate and entertain.

## Required Courses

		33 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 Digital Design	(IN 124)	3
__Digital Media Publishing Tools	(IN 208)	3
__2D Animation & Cartooning	(IN 217)	3
__Information Technology Ethics	(IN 275)	3
__Digital Media Capstone	(IN 299)	3
__3D Computer Animation I	(BA 128)	3
__Digital Graphics w/Photoshop	(IN 122)	3

Certificate requires 33 credit hours.

## Digital Media Specialist Certificate

Certificate of Completion in  
Digital Media Specialist

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 degree 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.

### Prior to Admission

Students enrolling in Computer information Technology programs need to be computer literate and able to manipulate basic computer applications. Because of the high level of math and reading required in Information Technology, Students should have ASSET math and reading scores of 39 or ACT scores of 18 in English and 21 in Math.

### Related Programs

Database Administration, Digital Media, Digital Media Specialist, Digital Media Business Specialist, e-Business Application, Information Assurance & Digital Forensics, Internetworking Management, Internetworking Management Business Specialist, Software Development, Web Development, Web Development Specialist, Web Development Business Specialist, Windows Administration

### Recommended Course Sequence

Some courses are offered only in the spring or fall semesters. Ask your advisor or instructor for details as you plan your class schedule.

**Wages:** Salary/hourly rates are dependent on skill level, experience and location.

### Additional Costs

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



# INFORMATION ASSURANCE & DIGITAL FORENSICS

## ASSOCIATE IN APPLIED SCIENCE

Your Butler experience will prepare you to assess the security needs of computer and network systems, recommend safeguard solutions, and manage the implementation and maintenance of security devices, systems, and procedures. Students completing the curriculum mapped to National Security Administration (NSA) standards will receive the corresponding CNSS 4011 certification, that designates federal training standards.

### General Education Requirements 15 Hours

#### Communications 9

__English Comp I	(EG 101)	3
__Technical Writing	(EG 112)	3
__Public Speaking	(SP 100)	3

#### Science, Math and Computer Science 3

__Math Requirement	(MA 135 or above)	3
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#### Social/Behavioral Science 3

__Sociology	(BS 105) OR	
__General Psychology	(BS 160)	3

### Required Courses 45 Hours

#### First Semester

__Programming Concepts	(IN 105)	3
__Supporting Desktop Systems	(IN 106)	3
__XHTML w/CSS	(IN 112)	3
__Supporting Networked Comp	(IN 133)	3

#### Second Semester

__Network Clients	(IN 130)	3
__Network Server	(IN 131)	3
__Advanced Netwkg Architecture	(IN 2000)	3
__Principles of Info Assurance	(IN 2001)	3

#### Third Semester

__Network Management	(IN 237)	3
__SQL Server Implementation	(IN 238)	3
__Network Security	(IN 2002)	3
__Secure Electronic Commerce	(IN 2003)	3

#### Fourth Semester

__Enterprise Security Mgt.	(IN 2004)	3
__Digital Forensics	(IN2005)	3
__Small Business Management	(BA 109) OR	
__Intro to Marketing	(BA 140)	3

A total of 60 credit hours is required for this degree.

### Information Assurance and Digital Forensics

Career Program

Degree offered: Associate in Applied Science

Credits Required: 60

Contact: Larry Evans, Lead Instructor, at 316.218.6142

#### 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.

Because of the high level of math and reading required in Information Technology, students should have ASSET math and

reading scores of 39 or ACT scores of 18 in English and 21 in math.

#### Articulations

K-State at Salina

#### Related Programs

- Database Administration
- Digital Media
- Digital Media Specialist
- e-Business Application
- Information Assurance & Digital Forensics
- Internetworking Management
- Software Development
- Web Development
- Web Development Specialist
- Windows Administration

#### Recommended Course Sequence

Some courses are offered only in the spring or fall semesters. Ask your advisor or instructor for details as you plan your class schedule.

# INFORMATION ASSURANCE & DIGITAL FORENSICS

## CERTIFICATE

Your Butler experience will prepare students with information technology experience for careers as Systems Assurance Auditor, Information Security Officer, IT Security Analyst, Network Security Architect, or Computer Forensics Analyst. Because the curriculum has been mapped to the National Security Administration (NSA) standards, students satisfactorily completing the following coursework will receive the corresponding CNSS 4011 certification.

### Required Courses 27 Hours

__Supporting Desktop Systems	(IN 106)	3
__Network Clients	(IN 130)	3
__Network Server	(IN 131)	3
__Principles of Info Assurance	(IN 2001)	3
__Network Security	(IN 2002)	3
__Secure Electronic Commerce	(IN 2003)	3
__Enterprise Security Mgt.	(IN 2004)	3
__Digital Forensics	(IN 2005)	3
__Advanced Netwkg Architecture	(IN 2000)	3

A total of 27 credit hours is required for this degree.

### Information Assurance and Digital Forensics

Certificate of Completion

Credits Required: 27

Contact: Larry Evans, Lead Instructor, at 316.218.6142

#### 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. Because of the high level of math and reading required in Information Technology, students should have ASSET math and reading scores of 39 or ACT scores of 18 in English and 21 in math.

#### Articulations

K-State at Salina



# 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 includes performing balancing; redundancy; CISCO router configuration; Local and Wide Area Networking. This program provides training for the following certifications: CISCO CCNA and CompTIA A+. Courses are taught by CISCO Certified Academy Instructors (CCAI).

### General Education Requirements 15 Hours

Communications 9		
__English Comp I	(EG 101)	3
__Technical Writing	(EG 112)	3
__Public Speaking	(SP 100)	3

### Science, Math and Computer Science 3

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

__Sociology	(BS 105) OR	
__General Psychology	(BS 160)	3

### Required Courses 36 Hours

First Semester		
__Programming Concepts	(IN 105)	3
__Supporting Desktop Systems	(IN 106)	3
__Supporting Networked Comp.	(IN 133)	3

Second Semester		
__XHTML w/CSS	(IN 112)	3
__Network Clients	(IN 130)	3
__Network Servers	(IN 131)	3

Third Semester		
__Internetworking Fund	(IN 245)	3
__Router Technologies	(IN 246)	3

Fourth Semester		
__Routing & Switching	(IN 247)	3
__Internetworking Protocols	(IN 248)	3
__Princ of Info Assurance	(IN 2001)	3
__Small Bus Mgmt	(BA 109) OR	
__Intro to Marketing	(BA 140)	3

### Technical Electives 12 Hours

__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
__Networking Management	(IN 237)	3
__SQL Server 2005 Implementation	(IN 238)	3
__Linux on the Desktop	(IN 240)	3
__Linux as a Server	(IN 249)	3
__Network Directory Services II	(IN 250)	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, choose 12 credit hours of Technical electives.

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

### MCSA

__Network Management	(IN 237)
__SQL Server 2005 Implementation	(IN 238)

### MCSE

__Enterprise Networking	(IN 140)
__Network Directory I	(IN 150)
__Network Management	(IN 237)
__SQL Server 2005 Implementation	(IN 238)
__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

K-State at Salina

### 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. Because of the high level of math and reading required in Information Technology, students should have ASSET math and reading scores of 39 or ACT scores of 18 in English and 21 in Math.

### Related Programs

Database Administration, Digital Media, Digital Media Specialist, Digital Media Business Specialist, e-Business Application, Information Assurance & Digital Forensics, Internetworking Management, Internetworking Management Business Specialist, Software Development, Web Development, Web Development Specialist, Web Development Business Specialist, Windows Administration

### Recommended Course Sequence

Some courses are offered only in the spring or fall semesters. Ask your advisor or instructor for details as you plan your class schedule.

### After Butler

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

**Wages:** Salary/hourly rates are dependent on skill level, experience and location.



# 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 including applying the methods and procedures of software design and programming to software installation and maintenance.

## General Education Requirements

### Course 15 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
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#### Social/Behavioral Science Requirement 3

__Sociology	(BS 105)	3
or		
__General Psychology	(BS 160)	3

### Required Courses 36 Hours

#### First Semester

__Programming Concepts	(IN 105)	3
__XHTML w/CSS	(IN 112)	3
__PC Visual Basic.NET	(IN 108)	3

#### Second Semester

__Intro to Programming w/C++	(IN200)	3
__Intro to SQL Language	(IN 228)	3
__Network Basic	(IN 134)	3

#### Third Semester

__Client Side Scripting	(IN 203)	3
__C#	(IN 201)	3

#### Fourth Semester

__Java Programming	(IN 211)	3
__Server Side Programming	(IN2024)	3
__Principles of Info Assurance	(IN2001)	3
__Network Clients	(IN 130)	3

### Related Electives 12 Hours

__In any IN Courses		
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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, choose any 12 "IN" credit hours.

## Software Development

Career Program

Degree Offered: Associate in

Applied Science

Credits Required: 63

Contact: Shiva Kumar, Lead Instructor, at 316.218.6312 or

skumar@butlercc.edu

### Prior to Admission

Students enrolling in Computer Information Technology programs need to be computer literate and able to manipulate basic computer applications. Because of the high level of math and reading required in Information Technology, students should have ASSET math and reading scores of 39 or ACT scores of 18 in English and 21 in Math.

### Related Programs

Database Administration, Digital Media, Digital Media Specialist, Digital Media Business Specialist, e-Business Application, Information Assurance & Digital Forensics, Internetworking Management, Internetworking Management Business Specialist, Software Development, Web Development, Web Development Specialist, Web Development Business Specialist, Windows Administration

### Recommended Course Sequence

Some courses are offered only in the spring or fall semesters. Ask your advisor or instructor for details as you plan your class schedule.

### Articulation

K-State at Salina

### After Butler

Recent graduates hold positions as computer programmers and related positions.

**Wages:** Salary/hourly rates are dependent on skill level, experience and location.

### Additional Costs

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



## WEB DEVELOPMENT 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 Communications 15 Hours 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
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#### Social/Behavioral Science Requirement Humanities/Fine Arts 3

One course from the following

__Sociology	(BS 105)	3
__General Psychology	(BS 160)	3
__Art Appreciation	(AR 100)	3

#### Required Courses 42 Hours

##### First Semester

__Programming Concepts	(IN 105)	3
__XHTML w/CSS	(IN 112)	3
__Introduction to Digital Design	(IN 124)	3
__Web Graphics	(IN 135)	3

##### Second Semester

__Flash Fundamentals	(IN 115)	3
__Dreamweaver	(IN 114)	3
__Network Basics	(IN 134)	3
__Client Side Scripting	(IN 2023)	3

##### Third Semester

__Intro. to SQL Language	(IN 228)	3
__2D Animation	(IN 217)	3
__Logo Designs w/Illustrator	(IN 123)	3

##### Fourth Semester

__Server Side Programming	(IN2024)	3
__Flash ActionScript	(IN 216)	3
__Princ. of Information Assurance	(IN 2001)	3

#### Related Electives 6 Hours

Any IN class from multimedia, software development or networking.

In addition, the following BA classes are acceptable:

__3D Computer Animation I	(BA 128)	3
__3D Computer Animation II	(BA 228)	3
__Cyber Marketing	(BA 219)	3

A total of 63 credit hours is required for this degree. In addition to the 15 credit hours of general education requirements and 42 credit hours of required courses, choose 6 credit hours from the list of Related Electives.

### Web Development

Career Program

Degree Offered: Associate in

Applied Science

Credits Required: 63

Contact: Shiva Kumar, Lead Instructor, at 316.218.6132 or skumar@butlercc.edu

### 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. Because of the high level of math and reading required in Information Technology, students should have ASSET math and reading scores of 39 or ACT scores of 18 in English and 21 in Math.

### Related Programs

Database Administration, Digital Media, Digital Media Specialist, e-Business Application, Information Assurance & Digital Forensics Internetworking Management, Software Development, Web Development, Web Development Specialist, Windows Administration

### Recommended Course Sequence

Some courses are offered only in the spring or fall semesters. Ask your advisor or instructor for details as you plan your class schedule.

### Articulation

Kansas State University/Salina

### After Butler

Recent graduates hold entry-level positions as Web Designers, Web Developers, and Webmasters.

**Wages:** Salary/hourly rates are dependent on skill level, experience and location.

## 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

33 Hours

__Introduction to Programming	(IN 105)	3
__Network Basics	(IN 134)	3
__XHTML w/CSS	(IN 112)	3
__Dreamweaver	(IN 114)	3
__Flash Fundamentals	(IN 115)	3
__Intro to Digital Design	(IN 124)	3
__Web Graphics	(IN 135)	3
__Intro. to SQL Language or	(IN 228) or	
2D Animation	(IN 217)	3
__Principles of Info Assurance	(IN 2001)	3
__Client Side Scripting or	(IN 2023) or	
Logo Design w/Illustrator	(IN 123)	3
__Server Side Programming or	(IN 2024) or	
Flash ActionScript	(IN 216)	3

Certificate requires 33 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 and wide area networking; network 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+, Microsoft Certified Systems Administrator (MCSA), and Technology Specialist (MCTS) in the technologies—1) Windows Vista Configuration, 2) Windows Server 2008 Networking Infrastructure Configuration, 3) Windows Server 2008 Active Directory Configuration, 4) SQL Server 2005).

### General Education Requirements 15 Hours

#### Communications 9

__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 3

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

__Sociology	(BS 105) OR	3
__General Psychology	(BS 160)	3

### Required Courses 39 Hours

#### First Semester

__Programming Concepts	(IN 105)	3
__Supporting Desktop Systems	(IN 106)	3
__Supporting Networked Comp.	(IN 133)	3

#### Second Semester

__Network Servers**	(IN 131)	3
__Adv. Networking & Architectures	(IN 2000)	3
__Introduction to SQL Language	(IN 228)	3
__Network Clients**	(IN 130)	3

#### Third Semester

__XHTML w/CSS	(IN 112)	3
__Networking Management**	(IN 237)	3
__C#	(IN201)	3
__SQL Server 2005 Implementation	(IN 238)	3

#### Fourth Semester

__Princ. of Information Assurance	(IN 2001)	3
__Small Bus Mgmt	(BA 109) OR	
__Intro to Marketing	(BA 140)	3

### Technical Electives 9 Hours

Any IN course.

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

#### CCNA

__CCNA 1 Interworking Fund.	(IN 245)
__CCNA 2 Router Technologies	(IN 246)
__Routing and Switching	(IN 247)
__Internetworking Protocols	(IN 248)

### MCTS

Windows Server 2008 Applications Platform, Configuring  
\_\_Enterprise Networking I (IN 140)

### MCITA (Microsoft Certified IT Professional)

Windows Server 2008 Administrator

__Network Directory Services I	(IN 150)
Windows Server 2008 Enterprise Administrator	
__Enterprise Networking I,	(IN 140)
__Network Directory Services II	(IN 250)
Database Administrator	
__Designing a Database	
Server Infrastructure	(IN 268)
__Optimizing and Maintaining a	
Database Solution	(IN 269)

### CompTIA Linux +

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

### \* 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 39 credit hours of required courses, choose 9 credit hours of Technical electives.

### Windows Administration

Career Program

Degree Offered: Associate in

Applied Science

Credits Required: 63

Contact: Steve Strom, Lead Instructor, at 316.218.6143

### Articulation Agreements

K-State at Salina

### Prior to Admission

Students enrolling in Computer Information Technology programs need to be computer literate and able to manipulate basic computer applications. Because of the high level of math and reading required in Information Technology, students should have ASSET math and reading scores of 39 or ACT scores of 18 in English and 21 in Math.

### Related Programs

Database Administration, Digital Media, Digital Media Specialist e-Business Application, Information Assurance & Digital Forensics Internetworking Management, Software Development Web Development, Web Development Specialist Windows Administration

### Recommended Course Sequence

Some courses are offered only in the spring or fall semesters. Ask your advisor or instructor for details as you plan your class schedule.

**Wages:** Salary/hourly rates are dependent on skill level, experience and location.

### Additional Costs

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