

Computer & Information Technologies (CIT)

AAS Degree tracks in Internet Technologies, Network Administration, and Programming

somerset.kctcs.edu

PROGRAM DETAILS

This program includes tracks in Internet Technologies, Network Administration, and Programming with a core of courses common to all. The core includes a general education component essential to a collegiate education and a technical component giving students an introduction to information systems, computer applications, program development, system maintenance, networking, security, Internet technologies, database design, and collaborative system development. In addition to core courses, students take specialty courses for their selected track.

The **Internet Technologies track** prepares students to design, program, and maintain Internet-based services. With specializations in web programming and web server administration, this track will help prepare students for positions developing and maintaining interactive web sites.

The **Network Administration track** provides the concepts and skills needed to design, set-up, maintain, and expand network and telecommunications systems. The curriculum provides specific training in Cisco and/or Microsoft network systems. Upon completion of the track, the graduate will be qualified to take industry designed and recognized certification examinations. Employment opportunities include entry-level positions in installation and administration of local and wide area networks in medium to large businesses and organization and computer network administration positions in small businesses.

The **Programming track** prepares students to design, develop, and maintain computer programs written in current and emerging programming languages. With tracks in Information Systems and Software

Development, students successfully completing this track are prepared for entry-level positions in computer programming.

Information Systems – This track is designed with an emphasis on programming for a business environment.

Students completing the Information Systems track study basic business concepts, one programming language at an advanced level, and two programming languages at an introductory level.

Software Development – This track emphasizes computer software

development. Students completing the Software Development track study a minimum of two computer programming languages at an advanced level and additional programming language(s) at an introductory level. Flexibility within this track allows students to focus on a specific area of software development by means of the programming languages they choose to study (object-oriented programming, database programming, game development, etc.)



COMPUTER & INFORMATION TECHNOLOGIES (CIT) CREDENTIALS:

CERTIFICATES:

- A+ (4 credit hours)
- Net+ (4 credit hours)
- Security+ (3 credit hours)
- Computer Tech Basic (11 credit hours)
- Computer Technician (14 credit hours)
- Cisco Networking Associate (16 credit hrs.)
- Microsoft Network Administrator (19 credit hours)
- Cisco Networking Enhanced (24-25 credit hrs.)
- CIT Fundamentals (26 credit hours)

ASSOCIATE IN APPLIED SCIENCE DEGREE:

- Internet Technologies Track (68 credit hours)
- Network Administration Track (64 credit hours)
- Programming Track (68 credit hours)

—Students graduating with a degree or certificate in Computer & Information Technologies may only use a course with a grade of “C” or higher (or a “Pass” for Pass/Fail courses) to fulfill a core or track graduation requirement.

—The Computer & Information Technologies department does not accept non-Gen Ed courses older than 5 years from returning or transfer students without consent from the local program coordinator.

—Students may not use one course to fulfill multiple requirements.



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REQUIRED COURSES FOR DEGREE TRACKS

AAS Degree tracks are Internet Technologies, Network Administration, and Programming

GENERAL EDUCATION REQUIREMENTS (15 HOURS)

<u>COURSE #</u>	<u>COURSE NAME</u>	Credit Hrs.	Grade
ENG 101	Writing I	3	_____
MAT 150	College Algebra	3	_____
	Social/Behavioral Sciences Course	3	_____
	Heritage/Humanities Course	3	_____
	Natural Science Course	3	_____

TECHNICAL COURSES REQUIRED (29 HOURS)

CIT 105	Introduction to Computers	3	_____
CIT 111	Computer Hardware and Software	4	_____
CIT 120	Computational Thinking	3	_____
CIT 150	Internet Technologies	3	_____
CIT 170	Database Design Fundamentals	3	_____
CIT 180	Security Fundamentals	3	_____
	Approved Level I Networking Course	4	_____
	Approved Level I Programming Language Course	3	_____
CIT 291	CIT Capstone	3	_____

DEGREE TRACKS COURSES (20-24 HOURS)

Varies Depending on Degree Track
(See the Course Catalog or Approved Advising Plan)

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

TOTAL HOURS FOR PROGRAM — 64 - 68

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All Computer & Information Technologies courses are available online!

STUDENT _____ ID NO. _____ DATE _____

SIGNATURE _____ ADVISOR _____