



Computer & Information Technology Associate in Applied Science Degree Network Administration Track (Cisco and/or Microsoft)

FIRST YEAR COURSE SCHEDULE					
Fall Semester		Credits	Spring Semester		Credits
ENG 101-Writing I		3	CIT 111-Computer Hardware and Software		4
CIT 105-Intro to Computers		3	CIT 120-Computational Thinking		3
MAT 126*-Technical Algebra & Trigonometry (or higher)		3	CIT 170-Database Design Fundamentals		3
Heritage/Humanities Course		3	Natural Sciences Course		3
Social/Behavioral Sciences Course		3	CIT Technical Elective		3
Total Credit Hours		15	Total Credit Hours		16

*If you plan to transfer to a four-year college/university, it is recommended that you take MAT150 - College Algebra.

SECOND YEAR COURSE SCHEDULE					
Fall Semester		Credits	Spring Semester		Credits
Approved Level I Networking Course CIT 160/161**		4	CIT 180 Security Fundamentals		3
Approved Level I Programming Language Course***		3	CIT 293-CIT Employability Studies		1
CIT Technical Elective		3	CIT Technical Elective		3
Select one specialization listed below:			Remaining specialization courses		
Cisco OR		4	Cisco OR		8
Microsoft		(6)	Microsoft		(6)
Total Credit Hours		14-16	Total Credit Hours		13-15

Cisco Networking Specialization****		Microsoft Windows Administration Specialization****			
(Use CIT 161 to start Cisco track)		Credits	(Use CIT 160 to start MS Track)		Credits
CIT 167-Routing & Switching Essentials		4	CIT 213-Microsoft Client Configuration		3
CIT 209-Scaling Networks		4	CIT 214-Microsoft Server Configuration		3
CIT 212-Connecting Networks		4	CIT 215-Microsoft Server Administration		3
			CIT 216-Microsoft Server Advanced Series		3
Total Credit Hours		12	Total Credit Hours		12

****See note on networking on page 2

***Programming Electives	
CIT 140-JavaScript I	CIT 148-Visual basic I
CIT 141-PHP I	CIT 149-Java I
CIT 142-C++ I	CIT 171-SQL I
CIT 145-Perl I	
CIT 147-Programming Language	

Technical Electives
NOTE: There are several technical electives listed in the KCTCS catalog. Please see your CIT advisor if you are not sure.

Curriculum within KCTCS is reviewed and updated to ensure quality and relevance. This curriculum plan should be used only as a guide for meeting the course requirements for each credential. See the KCTCS catalog for specifics and consult your advisor.



CIT Students please note!

- Students must maintain a "C" or better in all CIT courses for the course to count toward the degree.
- 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.
- Students may not use one course to fulfill multiple requirements.
- All CIT graduates must take exit exam(s) as required by Ashland Community and Technical College/KCTCS.
- NOTE on networking courses: Ashland Community and Technical College currently uses a "Fast-Track" model for its networking courses. For example, when you sign up for either MS or Cisco, you will sign up for two courses, both to be completed in a single semester. One class will run from the start of the semester to midterm and be finished. The second will run from midterm until the end of the semester. You will earn credit for two classes but only take one class at a time. This is so either track can be completed in two semesters and you can complete your degree without delay.
- Have a question? Contact Randolph.cullum@kctcs.edu

Network Technologies Overview

The Network Technologies track provides the concepts and skills needed to set up, maintain, and expand networked computer systems. This track requires sequences in Microsoft Windows, Cisco, and UNIX/Linux as well as courses providing deeper insight into Internet protocols and network security. Employment opportunities include entry-level positions in installation and administration of local area networks in medium to large organizations and as computer network administrators in small business.

Cisco Networking Associate Specialization

The CISCO Networking Associate Certificate offers students the opportunity to earn a credential demonstrating the fundamentals of computer networking. This certificate consists of the core skills that students need to effectively build and maintain computer networks. In addition, this certificate will provide a way for professionals currently in the industry to update their computer networking skills and for new students to show progress in the CIT program. The CISCO Networking Associate Certificate prepares students for the CCNA exam which is recognized by the computer industry around the world.

Microsoft Windows Administration Specialization

The Microsoft Network Administrator Certificate offers students the opportunity to earn a credential demonstrating the fundamentals of computer networking. This certificate consists of the core skills that students need to effectively build and maintain computer networks. In addition, this certificate will provide a way for professionals currently in the industry to update their computer networking skills and for new students to show progress in the CIT program.