



Catalog Year Fall 2015

# EAST CENTRAL COLLEGE

## COMPUTER INFORMATION SYSTEMS

### ASSOCIATE OF APPLIED SCIENCE DEGREE AND CERTIFICATES

#### East Central College

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East Central College is  
accredited by the Higher  
Learning Commission of the  
North Central Association of  
Colleges and Schools  
30 N. LaSalle St., Suite 2400  
Chicago, Illinois 60602-2504  
800-621-7440

## THE CAREER

Network and computer systems administrators design, install and support an organization's computer systems. They are responsible for local-area networks (LAN), wide-area networks (WAN), network segments and Internet and intranet systems.

Computer support specialists provide technical assistance and advice to customers and other users. This occupational group includes technical support specialists and help-desk technicians.

## PROFESSIONAL TRAITS

Those pursuing a career in this field should:

- Have strong problem-solving and analytical skills
- Be able to communicate effectively on paper, via e-mail, over the phone or in person
- Have strong writing skills, which are useful in preparing manuals for employees and customers

## EMPLOYMENT AND SALARY INFORMATION

The career outlook for computer support specialists is positive. By 2022, the number of jobs is projected to increase by 17%, a faster-than-average growth rate\* when compared with all other U.S. careers.

Nationwide, median annual earnings of computer support specialists were \$54,960, or \$24.22 per hour\* in May 2014.

The industries employing the most computer support specialists in 2014 were:

- Computer systems design and related services
- Educational services (state, local, and private)
- Information
- Finance and insurance
- Telecommunications
- Wholesale trade

\* Data provided by the U.S. Bureau of Labor Statistics

## THE PROGRAM

Because East Central College is a Cisco Networking Academy, it is able to offer specially-designed curriculum for training technicians on this equipment. Upon completion, students are prepared to take the CCNA (Cisco Certified Network Associate) exam and also the Network+ exam, CompTIA's certification.

The academic plan focuses on a wide range of fundamentals and product-specific technology such as database and application software. Classes in networking technology, operating systems and client-server development tools prepare students for employment in several areas of the computer technology and information field. ECC graduates with their AAS degree or certificate in computer information systems have the knowledge and skills they need to obtain industry-recognized certification.

## ADMISSIONS REQUIREMENTS

To enter the program, students must have completed:

- ✓ High school diploma or the equivalent (documentation must be sent to the registration office)
- ✓ Application for admission
- ✓ A placement test as specified by the college (please note: some coursework requires minimum placement results)

## TRANSFER OPTIONS

The AAS degree is designed for students seeking employment immediately upon graduation. However, many of the credits, particularly the general education electives received with this degree, may qualify as transfer credit by four-year schools.

Please note that these decisions are made solely by the bachelor degree-granting institution, not East Central College. Students seeking to transfer are advised to contact the institution of their choice before beginning a program or reviewing other degrees and coursework offered through ECC.



**ROLLA**  
573-466-4100



**SULLIVAN**  
573-468-8287



**UNION**  
636-584-6588



**WASHINGTON**  
636-239-0598

WWW.EASTCENTRAL.EDU

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## PROGRAM OF STUDY

This program of study is for a full-time student; part-time study is also available. Please contact an academic advisor for full course options. For the most current academic schedule (which is subject to change), visit the college Web site at [www.eastcentral.edu](http://www.eastcentral.edu).

AAS program (66-68 credit hours)

A - Course that is also a part of the Certificate of Achievement program (34 credit hours)

A\* - Must take at least 12 credits from these courses in addition to the "A" courses to earn the Certificate of Achievement

N - Course that is also a part of the Network Technician Certificate of Achievement program (34 credit hours)

## YEAR 1

### FALL SEMESTER

COURSE	HOURS
CS 1003 Microcomputer Applications <sup>A, N</sup>	3
CS 1063 Microcomputer Operations <sup>A, N</sup> (fall semester only)	3
CS 1153 Network 1 (Cisco) <sup>A*, N</sup> (fall semester only)	3
CS 1183 Project Management <sup>A, N</sup> (fall semester only)	3
FS 1000 Campus Orientation/ FS 1001 Foundation Seminar	1
EN 1223 English Comp I or EN 1233 Honors English Comp I	3
Total Hours	16

### SPRING SEMESTER

COURSE	HOURS
CS 1093 C# Programming <sup>A</sup> (spring semester only)	3
CS 1163 Network 2 (Cisco) <sup>A*, N</sup> (spring semester only)	3
CS 1233 Operating Systems (Microsoft) <sup>A, N</sup> (spring semester only)	3
PE Requirement	1
Humanities Requirement *	3
EN 1403 Technical Writing or EN 1333 English Comp II or EN 1343 Honors English Comp II	3
Total Hours	16

#### \* RECOMMENDED HUMANITIES COURSE OPTIONS

CT 1103 Public Speaking	3
CT 1003 Oral Communication	3

## YEAR 2

### FALL SEMESTER

COURSE	HOURS
AC 1003 Financial Accounting I (D&N fall semester, D spring semester)	3
CS 2143 Network Server 1 <sup>A*, N</sup> (fall semester only)	3
CS 2193 Network 3 <sup>A*, N</sup> (fall semester only)	3
CS 1073 Internet Programming <sup>A, N</sup> (fall semester only)	3
Math Requirement (Intermediate Algebra or higher)	3
HI 1000/ PS 1000 Constitutions Study Module	0
History or Pol. Science Requirement	3
Total Hours	18

### SPRING SEMESTER

COURSE	HOURS
CS 2003 Database Structures <sup>A</sup>	3
CS 2073 CIS Internship	3
CS 2163 Network Server 2 (Security) <sup>A*, N</sup> (spring semester only)	3
CS 2203 Network 4 <sup>A*, N</sup> (spring semester only)	3
CS 2881 Program Capstone - CIS <sup>A, N</sup> (fall and spring semesters only)	1
Science Requirement #	3-5
Total Hours	16-18

#### # THREE-HOUR SCIENCE COURSE OPTIONS

BI 1203 Introduction to Life Science	3
ES 1023 Introduction to Environmental Science	3
GL 1103 Introduction to Physical Geology	3

Please Note: A four to five-hour science course with a lab is also an option for students. Those who do so must also take the SC 1000 Lab Safety for Students course.