COMPUTER INFORMATION TECHNOLOGY

LINCOLN CAMPUS (SOME COURSES ONLINE)

www.southeast.edu/ComputerInformation

Prepare for a rewarding career in a fast-growing industry.

NETWORKING SYSTEMS MANAGEMENT

Students learn . . .
• Hardware installation
• Computer communications and network protocols
• Network operating systems
• Cisco networking
• Setup and use of virtual machines

Network managers . . .
• Research and recommend hardware and software purchases
• Set up, monitor and support network systems
• Troubleshoot computer and network problems

NETWORK SECURITY

Students learn . . .
• Computer communications and network operating systems
• Cisco networking and security
• Attack methods and defense techniques
• Security software and devices

Security technicians . . .
• Configure and maintain secure networks and data systems
• Perform security auditing and penetration testing
• Respond to security incidents

COMPUTER AND NETWORK SUPPORT

Students learn . . .
• Customer service skills
• Problem-solving techniques
• Hardware troubleshooting
• Software and operating systems
• Help desk structure and operation
• Basic networking

Support specialists . . .
• Handle customer requests and solve problems
• Install and support computer hardware and software
• Troubleshoot computer problems
• Prepare training materials

APPLICATIONS DEVELOPMENT FOR PC AND WEB PLATFORMS

Students learn . . .
• Coding in C# and Java
• Web development using HTML, CSS, JavaScript, ASP, and PHP
• Database design and SQL
• Mobile apps development
• Teaming and project development

These developers . . .
• Use logic to plan and code computer applications
• Test and implement computer programs
• Develop and maintain websites
• Design and manage databases

APPLICATIONS DEVELOPMENT FOR INTEGRATED PLATFORMS

Students learn . . .
• Coding in Java, C#, and COBOL
• Web development using HTML, JavaScript, and JSP
• Various database platforms and SQL
• Techniques to integrate PC, Web and mainframe applications
• Procedures to implement a small-scale computerized business system

These developers . . .
• Design and code applications using different computer platforms
• Document, test and implement code
• Develop Web front-end applications to interact with back-end systems
• Maintain existing computer applications

425 Jobs were posted for CIT students and alumni on the SCC Career Services website in the last year!

Graduate Earnings
Recent graduates report an average starting wage of $21.35 per hour.

Types of jobs available:
• Applications Developer
• Cyber Security Technician
• Help Desk Specialist
• IT Security Specialist
• IT Support Technician
• Network Manager
• Network Technician
• Programmer/Analyst
• Software Developer
• Web Developer

Highlights
• Great facilities for hands-on training
• Skilled, experienced instructors
• Great career opportunities for qualified graduates

Flexible Schedules
• New students are accepted every term
• Day, evening and online courses
• Full-time and part-time schedules

For more information contact:
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402-437-2492, 800-642-4075 ext. 2492
jschuster@southeast.edu

or the College Admissions Office
Lincoln 402-437-2600, 800-642-4075 ext. 2600

Equal Opportunity/NonDiscrimination Policy - It is the policy of Southeast Community College to provide equal opportunity and nondiscrimination in all admission, attendance, and employment matters to all persons without regard to race, color, religion, sex, age, marital status, national origin, ethnicity, veteran status, sexual orientation, disability, or other factors prohibited by law or College policy. Inquiries concerning the application of Southeast Community College’s policies on equal opportunity and nondiscrimination should be directed to the Vice President for Access/Equity/Diversity, SCC Area Office, 301 S. 68th Street Place, Lincoln, NE 68510, 402-323-3412, FAX 402-323-3425, or photo@southeast.edu. This publication should not be considered a contract between SCC and any prospective student. SCC’s Board of Governors reserves the right to make changes in this publication during the life of the publication and without notice.

A0708 - CIT (06/18)
General Education Requirements:
See the General Education pages online for a complete list.

Oral Communications (Choose ONE):
SCHC1090 Fundamentals of Human Communication
SCHC1110 Public Speaking
SCHC2810 Business & Professional Communication
Written Communications 4.5
ENGL1010 English Composition I
Analytical, Quantitative, and Scientific Reasoning
(Choose ONE):
MATH1040 Data Math
MATH1050 Thinking Mathematically
MATH1100 Intermediate Algebra

Complete two additional courses from the three areas below with no courses from the same area:
9.0

Critical Thinking & Problem Solving
Global Awareness and Citizenship
Career and Life Skills (Excluding-BSD1010)
22.5 hours

A.A.S. DEGREE REQUIREMENTS:
To earn an A.A.S. degree, students must complete a group of core CIT requirements, specific courses for one of the degree focus options (integrated platforms software development, PC & Web software development, network management, network security, or computer support), and the general education requirements. A grade of C or higher is required in all prerequisite courses.

Core CIT Requirements:

Course # Course title Credit hrs.
INFO1121 Microsoft Word & PowerPoint 1.5
INFO1131 Microsoft Excel 1.5
INFO1151 Information Technology Fundamentals 4.5
INFO1161 Windows Operating Systems 4.5
INFO1211 Microsoft Access 3.0
INFO1214 Program Design & Problem Solving 4.5
INFO1311 Database Concepts 3.0
INFO1381 Data Communications & Networking 4.5
INFO2253 Linux Operating System 2.0
INFO2621 CIT Practicum or
OFFT2000 Employment Techniques 3.0 32.0 hours

Applications Development Focus:
Integrated Platforms Option Requirements:

Course # Course title Credit hrs.
INFO1221 MVS Environment 2.0
INFO1314 Java 4.5
INFO1334 C#.NET 4.5
INFO1414 Advanced Java 4.5
INFO1337 IBM i Environment 2.0
INFO1425 JavaScript & jQuery 3.0
INFO1431 Web Page Fundamentals 3.0
INFO1434 Advanced C#.NET 4.5
INFO1515 Database Administration 3.0
INFO2241 Java Server Programming 4.5
INFO2258 Advanced COBOL 4.5
INFO2268 Integrated Platforms Capstone 4.5
INFO2678 DB2 & SQL 3.0

Select a minimum of 5.5 credits of technical electives from the following:
INFO1511 Advanced Database Concepts 3.0
INFO1514 Mobile Device Programming 4.5
INFO1522 Web Layout 3.0
INFO20538 Microsoft SharePoint for End Users 2.0
INFO2534 ASP.NET Using C# 4.5
INFO2574 Advanced Programming Using VB 4.5

PC & Web Platforms Option Requirements:
Course # Course title Credit hrs.
INFO1314 Java 4.5
INFO1334 C#.NET 4.5
INFO1414 Advanced Java 4.5
INFO1425 JavaScript & jQuery 3.0
INFO1431 Web Page Fundamentals 3.0
INFO1434 Advanced C#.NET 4.5
INFO1441 Advanced Windows Operating System 3.0
INFO1511 Advanced Database Concepts 3.0
INFO1514 Mobile Device Programming 4.5
INFO1515 Database Administration 3.0
INFO1522 Web Layout 3.0
INFO1525 Web Server Scripting 4.5
INFO2534 ASP.NET Using C# 4.5
INFO2544 Object-Oriented Analysis & Design 3.0
INFO2644 PC & Web Platforms Capstone 4.5

Select a minimum of 3.5 credits of technical electives from the following:
INFO1221 MVS Environment 2.0
INFO1337 IBM i Environment 2.0
INFO1428 COBOL 4.5
INFO2514 Java Server Programming 4.5
INFO2533 Microsoft SharePoint for End Users 2.0
INFO2574 Advanced Programming Using VB 4.5

Networking, Security, & Support Focus:
Network Management Option Requirements:

Course # Course title Credit hrs.
INFO1391 TCP/IP 3.0
INFO1441 Advanced Windows Operating System 3.0
INFO1456 Hardware Installation & Troubleshooting 4.5
INFO1491 Network Security Fundamentals 3.0
INFO1575 Windows PowerShell Fundamentals 2.0
INFO1585 Virtualization Management 2.0
INFO2543 Workplace Communication Skills 2.0
INFO2581 Network Security Systems 4.5
INFO2691 Enterprise Security Capstone 3.0
INFO2695 Advanced Windows Server 3.0
INFO2697 Networking Capstone 3.0
ELEC2860 Scaling Networks 4.5
ELEC2861 Connecting & Securing Networks 4.5

Select a minimum of 8.0 credits of technical electives from the following:
INFO1463 Advanced Hardware Troubleshooting 3.0
INFO1465 Help Desk Concepts 2.0
INFO1446 Hardware Installation & Troubleshooting 4.5
INFO1491 Network Security Fundamentals 3.0
INFO1493 Advanced Microsoft Access 3.0
INFO1511 Advanced Database Concepts 3.0
INFO2523 Support Techniques 4.5
INFO2533 Microsoft SharePoint for End Users 2.0
INFO2543 Workplace Communication Skills 2.0
INFO2585 Windows Server Administration 4.5
INFO2670 Desktop Support 4.5
ELEC2560 Technical Writing or
ENGL1110 Business Communications 4.5

Select a minimum of 9.0 credits of technical electives from the following:
INFO1515 Database Administration 3.0
INFO1522 Web Layout 3.0
INFO1541 Social & Ethical Issues in Information Technology 2.0
INFO1575 Windows PowerShell Fundamentals 2.0
INFO1585 Virtualization Management 2.0
INFO2253 Linux Network Administration 4.5
INFO2596 Computer & Digital Forensics 3.0
INFO2670 Enterprise Security Capstone 3.0
ELEC2560 Technical Writing or
ENGL1110 Business Communications 4.5

Estimated Expenses:
Nebraska Resident tuition/fee rate is $69.50 per credit hour. Out-of-state tuition/fee rate is $83.50 per credit hour. Graduation fee is $25.00.

Housing is available at Beatrice and Milford campuses only. Tuition, books and fees are dependent upon classes taken each quarter.
Students should plan a budget that includes room, meals, clothing, laundry, medical care, recreation and entertainment, transportation, insurance, etc.

A.A.S. DEGREE CERTIFICATE:
Tuition And Fees $7,993 Total $3,937

Network Security Option Requirements:
Course # Course title Credit hrs.
INFO1391 TCP/IP 3.0
INFO1441 Advanced Windows Operating System 3.0
INFO1456 Hardware Installation & Troubleshooting 4.5
INFO1491 Network Security Fundamentals 3.0
INFO1575 Windows PowerShell Fundamentals 2.0
INFO2581 Network Security Systems 4.5
INFO2582 Advanced Network Security 4.5
INFO2585 Windows Server Administration 4.5
INFO2586 Security Operations & Ethics 3.0
INFO2596 Computer & Digital Forensics 3.0
INFO2631 Linux Network Administration 4.5
INFO2691 Enterprise Security Capstone 3.0
ELEC2760 Introduction to Networks 4.5
ELEC2761 Routing & Switching Essentials 4.5
ELEC2900 CCNA Security 4.5

Computer Support Option Requirements:
Course # Course title Credit hrs.
INFO1391 TCP/IP 3.0
INFO1441 Web Page Fundamentals 3.0
INFO1441 Advanced Windows Operating System 3.0
INFO1443 Microsoft Outlook 2.0
INFO1443 Help Desk Concepts 2.0
INFO1445 Hardware Installation & Troubleshooting 4.5
INFO1463 Advanced Hardware Troubleshooting 3.0
INFO1491 Network Security Fundamentals 3.0
INFO1493 Advanced Microsoft Access 3.0
INFO1511 Advanced Database Concepts 3.0
INFO2523 Support Techniques 4.5
INFO2533 Microsoft SharePoint for End Users 2.0
INFO2543 Workplace Communication Skills 2.0
INFO2585 Windows Server Administration 4.5
INFO2670 Desktop Support 4.5
ELEC2560 Technical Writing or
ENGL1110 Business Communications 4.5

Select a minimum of 9.0 credits of technical electives from the following:
INFO1515 Database Administration 3.0
INFO1522 Web Layout 3.0
INFO1541 Social & Ethical Issues in Information Technology 2.0
INFO1575 Windows PowerShell Fundamentals 2.0
INFO1585 Virtualization Management 2.0
INFO2253 Linux Network Administration 4.5
INFO2596 Computer & Digital Forensics 3.0
INFO2670 Enterprise Security Capstone 3.0
ELEC2760 Introduction to Networks 4.5
ELEC2761 Routing & Switching Essentials 4.5

CERTIFICATE REQUIREMENTS:
The certificate is available for anyone wanting to add basic computer training to already existing skills, primarily for employment outside the IT field. A grade of C or higher is required in all prerequisite courses.
Course # Course title Credit hrs.
INFO1121 Microsoft Word & PowerPoint 1.5
INFO1131 Microsoft Excel 1.5
INFO1151 Information Technology Fundamentals 4.5
INFO1161 Windows Operating Systems 4.5
INFO1211 Microsoft Access 3.0
INFO1214 Program Design & Problem Solving 4.5
INFO1311 Database Concepts 3.0
INFO1381 Data Communications & Networking 4.5
INFO2253 Linux Operating System 2.0
INFO2621 CIT Practicum or
OFFT2000 Employment Techniques 3.0 32.0 hours

Applying IT skills to both traditional and emerging fields, you will be prepared to enter the workforce with a marketable skill set. You will develop the communication, problem solving and critical thinking skills needed to address the demands of today’s IT marketplace, and the people who make them work. There is a demand for people with IT skills in organizations of all sizes. Students in the CIT program can complete an Associate of Applied Science degree leading to careers in networking, security and support or software and Web development. A two-year degree is one of the quickest routes to a rewarding, professional career in IT!