

# COMPUTER SCIENCE

## ASSOCIATE IN SCIENCE

The Computer Science program offers an Associate of Science Degree that includes the study of computers and the methods of computer-based problem solving.

**Credits Required:** 64

**Contact:** Jack Burke  
620-820-1188  
[jackb@labette.edu](mailto:jackb@labette.edu)

### Concentration Requirements 27

- COMP 120 Computer Information Systems 3
- COMP 130 Introduction to Programming Logic 3
- COMP 135 C++ Programming 3
- COMP 212 Principles of Software Design 3
- COMP 214 Concepts of Computer Systems or  
INDU 125 Fundamentals of Electronics 3
- MATH 120 Elementary Statistics 3
- Concentration Electives \* 9
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- \_\_\_\_\_
- \_\_\_\_\_

### Recommended Course Sequence

**SEM 1:** COMP 130, Concentration Elective

**SEM 2:** COMP 120, MATH 120

**SEM 3:** COMP 135, COMP 214 or INCU 125

**SEM 4:** COMP 212, Concentration Elective

### After Graduation

This degree serves as the first two years of study toward a Baccalaureate Degree in Computer Science and prepares students for jobs in the areas of hardware and software development, research and development of hardware and software, system programming, system analyst or software designer.

### General Education Requirements 37

- BIOL 120 Biology 5
- COMM 101 Public Speaking 3
- ENGL 101 English Composition I 3
- ENGL 102 English Composition II 3
- MATH 130 Calculus I 5
- PED 116 Lifetime Fitness 1
- Physical Science Elective with Lab 5
- \_\_\_\_\_
- Humanities Electives 6
- \_\_\_\_\_
- \_\_\_\_\_
- Social and Behavioral Science Electives 6
- \_\_\_\_\_
- \_\_\_\_\_

### \*Concentration Electives

- COMP 110 Computer Concepts and Applications 3
- COMP 115 Spreadsheets (Microsoft Excel) 3
- COMP 138 Visual Basic Programming 3
- COMP 180 Introduction to Networking I 3
- COMP 182 Networking II 3
- COMP 192 Database Concepts and Applications 3
- COMP 205 Special Topics in Computing/Robotics 3

Courses designated as Physical Science, Natural Science, Humanities, Social Behavioral and General Education electives can be found on page 82.  
Placement Tests or pre-requisites are required for English Composition I, Math courses and most General Education Electives. See page 31 for complete Placement information.  
All first-time, full-time students with fewer than 15 credit hours after high school graduation are required to enroll in the College Success Skills course during their first semester.  
Some courses are not offer each semester. Always make an appointment with your major advisor to enroll each semester.

# COMPUTER SUPPORT SPECIALIST

## ASSOCIATE IN APPLIED SCIENCE

The Computer Support Specialist Associate in Applied Science is a two-year degree for students who intend to seek immediate employment upon graduation. The Computer Support Specialist installs, maintains, and repairs computer hardware, software, and networks, and provides support services to system users. Duties of a computer support specialist typically include the diagnosis of system hardware and software failures and the performance of actions necessary to correct such problems. Graduates for this degree will take the CompTIA A+ certification exam and two of the following three certification exams: Network +, Security +, and/or Server +.

**Credits Required:** 60

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### Recommended Course Sequence

**SEM 1:** COMP 110, COMP 130, COMP 180, COMP 198, MATH 115

**SEM 2:** COMP 138, COMP 182, COMP 185\*, COMP 192, COMP 199, COMP 203,

**SEM 3:** COMP 195, COMP 196\*, COMP 201,

**SEM 4:** COMP 200, COMP 202, COMP 204\*

\*Two of three required

### Concentration Requirements **39**

- COMP 110 Computer Concepts and Applications 3
- COMP 130 Introduction to Programming Logic 3
- COMP 138 Visual Basic Programming 3
- COMP 180 Introduction to Networking I 3
- COMP 182 Networking II 3
- COMP 192 Database Concepts (Microsoft Access) 3
- COMP 195 Network Security 3
- COMP 198 CompTIA A+ Essentials 3
- COMP 199 CompTIA A+ Practical Applications 3
- COMP 200 Operating Systems 3
- COMP 201 Server Administration I 3
- COMP 202 Server Administration II 3
- COMP 203 CompTIA A+ Exam 1
- \*Concentration Electives 2
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- \_\_\_\_\_

### After Graduation

Graduates with this degree will be able to begin working in the IT field in a computer support specialist position. Graduates have the opportunity to earn up to four industry-recognized credentials with this degree.

### General Education Requirements **21**

- BUAD 110 Business Communication 3
- ENGL 101 English Composition I 3
- MATH 115 College Algebra 3
- General Education Electives 12
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- \_\_\_\_\_
- \_\_\_\_\_

### \*Concentration Electives

- Two of three required
- COMP 185 CompTIA Network+ Exam 1
  - COMP 196 CompTIA Security+ Exam 1
  - COMP 204 CompTIA Server+ Exam 1

Courses designated as Physical Science, Natural Science, Humanities, Social Behavioral and General Education electives can be found on page 82. Placement Tests or pre-requisites are required for English Composition I, Math courses and most General Education Electives. See page 31 for complete Placement information. All first-time, full-time students with fewer than 15 credit hours after high school graduation are required to enroll in the College Success Skills course during their first semester. Some courses are not offer each semester. Always make an appointment with your major advisor to enroll each semester.

# COMPUTER SUPPORT SPECIALIST

## COMPTIA A+ CERTIFICATE

The Computer Support Specialist Associate in Applied Science is a two-year degree for students who intend to seek immediate employment upon graduation. The Computer Support Specialist installs, maintains, and repairs computer hardware, software, and networks, and provides support services to system users. Duties of a computer support specialist typically include the diagnosis of system hardware and software failures and the performance of actions necessary to correct such problems. Graduates for this degree will take the CompTIA A+ certification exam and two of the following three certification exams: Network +, Security +, and/or Server +.

**Credits Required:** 28

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### Recommended Course Sequence

**SEM 1:** COMP 110, COMP 130, COMP 180, COMP 198, MATH 115

**SEM 2:** COMP 115, COMP 182, COMP 192, COMP 199, COMP 203

### After Graduation

Graduates with this degree will be able to begin working in the IT field in an entry-level computer support specialist position. Graduates have the opportunity to earn the CompTIA A+ industry-recognized credential with this certificate.

### Concentration Requirements **25**

<input type="checkbox"/>	COMP 110	Computer Concepts and Applications	3
<input type="checkbox"/>	COMP 115	Spreadsheets (Microsoft Excel)	3
<input type="checkbox"/>	COMP 130	Introduction to Programming Logic	3
<input type="checkbox"/>	COMP 180	Introduction to Networking I	3
<input type="checkbox"/>	COMP 182	Networking II	3
<input type="checkbox"/>	COMP 192	Database Concepts (Microsoft Access)	3
<input type="checkbox"/>	COMP 198	CompTIA A+ Essentials	3
<input type="checkbox"/>	COMP 199	CompTIA A+ Practical Applications	3
<input type="checkbox"/>	COMP 203	CompTIA A+ Exam	1

### General Education Requirements **3**

<input type="checkbox"/>	MATH 115	College Algebra	3
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Courses designated as Physical Science, Natural Science, Humanities, Social Behavioral and General Education electives can be found on page 82. Placement Tests or pre-requisites are required for English Composition I, Math courses and most General Education Electives. See page 31 for complete Placement information. All first-time, full-time students with fewer than 15 credit hours after high school graduation are required to enroll in the College Success Skills course during their first semester. Some courses are not offer each semester. Always make an appointment with your major advisor to enroll each semester.

# COMPUTER SUPPORT SPECIALIST

## COMPUTER SUPPORT SPECIALIST CERTIFICATE

The Computer Support Specialist 42-credit hour certificate provides additional technical skills and industry-recognized credentials for students to qualify for a wider range of high-demand positions across the broad field of information systems than those provided by the CompTIA A+ certificate. Upon completion of the certificate, students will take the CompTIA A+ exam and at least two of the following certification exams: Network+, Security+, and/or Server+. Individuals may choose to enter the workforce with strong computer, network, security, and server support skills, or continue on to complete the Computer Support Specialist Associate in Applied Science degree.

**Credits Required:** 42

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### Recommended Course Sequence

- SEM 1:** COMP 110, COMP 130, COMP 180, COMP 198, MATH 115  
**SEM 2:** COMP 115, COMP 182, COMP 185\*, COMP 192, COMP 199, COMP 203,  
**SEM 3:** COMP 195, COMP 196\*, COMP 201,  
**SEM 4:** COMP 200, COMP 202, COMP 204\*  
 \*Two of three required

### Concentration Requirements **39**

- COMP 110 Computer Concepts and Applications 3
- COMP 115 Spreadsheets (Microsoft Excel) 3
- COMP 130 Introduction to Programming Logic 3
- COMP 180 Introduction to Networking I 3
- COMP 182 Networking II 3
- COMP 192 Database Concepts (Microsoft Access) 3
- COMP 195 Network Security 3
- COMP 198 CompTIA A+ Essentials 3
- COMP 199 CompTIA A+ Practical Applications 3
- COMP 200 Operating Systems 3
- COMP 201 Server Administration I 3
- COMP 202 Server Administration II 3
- COMP 203 CompTIA A+ Exam 1
- \*Two of three required 2
- \_\_\_\_\_ 3
- \_\_\_\_\_ 3

### After Graduation

Graduates with this degree will be able to begin working in the IT field in a computer support specialist position. Graduates have the opportunity to earn up to four industry-recognized credentials with this degree.

### General Education Requirements **3**

- MATH 115 College Algebra 3

### \*Concentration Electives

- Two of three required
- COMP 185 CompTIA Network+ Exam 1
  - COMP 196 CompTIA Security+ Exam 1
  - COMP 204 CompTIA Server+ Exam 1

Courses designated as Physical Science, Natural Science, Humanities, Social Behavioral and General Education electives can be found on page 82. Placement Tests or pre-requisites are required for English Composition I, Math courses and most General Education Electives. See page 31 for complete Placement information. All first-time, full-time students with fewer than 15 credit hours after high school graduation are required to enroll in the College Success Skills course during their first semester. Some courses are not offer each semester. Always make an appointment with your major advisor to enroll each semester.