

# 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@lafayette.edu](mailto:jackb@lafayette.edu)

### Concentration Requirements 27

<input type="checkbox"/>	COMP 120	Computer Information Systems	3
<input type="checkbox"/>	COMP 130	Introduction to Programming Logic	3
<input type="checkbox"/>	COMP 135	C++ Programming	3
<input type="checkbox"/>	COMP 212	Principles of Software Design	3
<input type="checkbox"/>	COMP 214	Concepts of Computer Systems or	
	INDU 125	Fundamentals of Electronics	3
<input type="checkbox"/>	MATH 120	Elementary Statistics	3
<input type="checkbox"/>		Concentration Electives *	9

### **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

<input type="checkbox"/>	BIOL 120	Biology	5
<input type="checkbox"/>	COMM 101	Fundamentals of Speech	3
<input type="checkbox"/>	ENGL 101	English Composition I	3
<input type="checkbox"/>	ENGL 102	English Composition II	3
<input type="checkbox"/>	MATH 130	Calculus I	5
<input type="checkbox"/>	PED 116	Lifetime Fitness	1
<input type="checkbox"/>		Physical Science Elective with Lab	5
<input type="checkbox"/>		Humanities Electives	6
<input type="checkbox"/>		Social and Behavioral Science Electives	6

### \*Concentration Electives

<input type="checkbox"/>	COMP 110	Computer Concepts and Applications	3
<input type="checkbox"/>	COMP 115	Spreadsheets (Microsoft Excel)	3
<input type="checkbox"/>	COMP 138	Visual Basic Programming	3
<input type="checkbox"/>	COMP 180	Introduction to Networking	3
<input type="checkbox"/>	COMP 182	Network Administration I	3
<input type="checkbox"/>	COMP 192	Database Concepts and Applications	3
<input type="checkbox"/>	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

**Contact:** Jack Burke  
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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**

<input type="checkbox"/>	COMP 110	Computer Concepts and Applications	3
<input type="checkbox"/>	COMP 130	Introduction to Programming Logic	3
<input type="checkbox"/>	COMP 138	Visual Basic Programming	3
<input type="checkbox"/>	COMP 180	Introduction to Networking	3
<input type="checkbox"/>	COMP 182	Network Administration Applications	3
<input type="checkbox"/>	COMP 192	Database Concepts (Microsoft Access)	3
<input type="checkbox"/>	COMP 195	Network Security	3
<input type="checkbox"/>	COMP 198	PC Troubleshooting	3
<input type="checkbox"/>	COMP 199	PC Troubleshooting Applications	3
<input type="checkbox"/>	COMP 200	Operating Systems	3
<input type="checkbox"/>	COMP 201	Network Server	3
<input type="checkbox"/>	COMP 202	Network Server Applications	3
<input type="checkbox"/>	COMP 203	CompTIA A+ Rexam Review	1
<input type="checkbox"/>		*Concentration Electives	2

### 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**

<input type="checkbox"/>	BUAD 110	Business Communication	3
<input type="checkbox"/>	ENGL 101	English Composition I	3
<input type="checkbox"/>	MATH 115	College Algebra	3
<input type="checkbox"/>		General Education Electives	12

### \*Concentration Electives

Two of Three required

<input type="checkbox"/>	COMP 185	Network+ Exam Review	1
<input type="checkbox"/>	COMP 196	Security+ Exam Review	1
<input type="checkbox"/>	COMP 204	Server+ Exam Review	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	3
<input type="checkbox"/>	COMP 182	Network Administration Applications	3
<input type="checkbox"/>	COMP 192	Database Concepts (Microsoft Access)	3
<input type="checkbox"/>	COMP 198	PC Troubleshooting	3
<input type="checkbox"/>	COMP 199	PC Troubleshooting Applications	3
<input type="checkbox"/>	COMP 203	CompTIA A+ Rexam Review	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**

<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	3
<input type="checkbox"/>	COMP 182	Network Administration Applications	3
<input type="checkbox"/>	COMP 192	Database Concepts (Microsoft Access)	3
<input type="checkbox"/>	COMP 195	Network Security	3
<input type="checkbox"/>	COMP 198	PC Troubleshooting	3
<input type="checkbox"/>	COMP 199	PC Troubleshooting Applications	3
<input type="checkbox"/>	COMP 200	Operating Systems	3
<input type="checkbox"/>	COMP 201	Network Server	3
<input type="checkbox"/>	COMP 202	Network Server Applications	3
<input type="checkbox"/>	COMP 203	CompTIA A+ Rexam Review	1
<input type="checkbox"/>		*Two of three required	2

### 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**

<input type="checkbox"/>	MATH 115	College Algebra	3
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### \*Concentration Electives

Two of Three required

<input type="checkbox"/>	COMP 185	Network+ Exam Review	1
<input type="checkbox"/>	COMP 196	Security+ Exam Review	1
<input type="checkbox"/>	COMP 204	Server+ Exam Review	1

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