



# Computer Science: Software Developer Track Associate of Applied Science (A.A.S.)

2018–2019

## DESCRIPTION:

The Software Developer A.A.S. degree program is designed for students who wish to pursue a career as a software developer or plan to transfer to a four-year institution to pursue a Bachelor's degree in Computer Science. In both online and traditional classroom settings, students will learn theoretical fundamentals as well as hands-on software development exercises. The program includes training in multiple computer languages, networking, web development fundamentals, cloud computing, and software development methodology as well as business courses and soft skills required for success in a modern corporate environment. For more information, see [csc.ccc.edu/computerscience](http://csc.ccc.edu/computerscience).

## ADMISSION REQUIREMENTS:

This is a non-selective, open-admission program. The program can be started in any semester.

## ONGOING REQUIREMENTS:

Students are required to take the introductory programming course CSCI 1103 and pass with a grade of 'C' or better to continue in the degree program.

## OPPORTUNITIES FOR GRADUATES:

### Career:

According to the U.S. Bureau of Labor Statistics, employment of software developers is projected to grow 17 percent from 2014 to 2024. This is much faster than the average for all occupations. Graduates have career opportunities in a variety of industries including technology, insurance, financial services, retail, energy, aerospace, publishing, transportation, and pharmaceuticals. Graduates typically begin as an entry level software developer and can advance into a specialty field, become a software architect designing entire enterprise systems, or move into management positions.

### Transfer:

The Software Developer Track courses transfer to the Information Technology Bachelor's degree program at Franklin University. Students who want to transfer to higher education institutions should meet with a Computer Science Academic Advisor to learn more about the transfer programs

**DEGREE REQUIREMENTS (COMPUTER SCIENCE: SOFTWARE DEVELOPER TRACK A.A.S):****FIRST SEMESTER**

Course	Term	Credits	Milestones/Progress Check
CSCI 1101 Computer Concepts & Applications	AU/SP/SU	3	
CSCI 1103 Introduction to Logic and Object Oriented Programming	AU/SP	3	
COLS 1100 First Year Experience Seminar	AU/SP/SU	1	
MATH 1111 Discrete Mathematics for Computing	AU/SP/SU	3	
ITST 1101 Computer Apps in Construction/ Engineering Technology I	AU/SP/SU	2	
<b>Semester Credits</b>		<b>12</b>	

**SECOND SEMESTER**

Course	Term	Credits	Milestones/Progress Check
CSCI 1152 Networking Concepts	AU/SP	3	
CSCI 1145 HTML	AU/SP	3	
ENGL 1100 Composition I	AU/SP/SU	3	
ITST 1123 PC Tech Essentials	AU/SP	3	
CSCI 2467 Java Programming I	AU/SP	3	
<b>Semester Credits</b>		<b>15</b>	

**SUMMER SEMESTER**

Course	Term	Credits	Milestones/Progress Check
CSCI 1275 Business Analysis with Agile Development Frameworks	AU/SU	3	
PHIL 1150 Introduction to Logic	AU/SP/SU	3	
<b>Semester Credits</b>		<b>6</b>	

**THIRD SEMESTER**

Course	Term	Credits	Milestones/Progress Check
CSCI 1630 C# Programming I	AU/SP	3	
CSCI 1320 Database Fundamentals	AU/SP	3	
CSCI 2447 JavaScript Fundamentals	AU/SU	3	
ITST 2238 Information Security Fundamentals	AU/SP	3	
ECON 2200 Principles of Microeconomics	AU/SP/SU	3	
<b>Semester Credits</b>		<b>15</b>	

**FOURTH SEMESTER**

Course	Term	Credits	Milestones/Progress Check
CSCI 2469 Java Programming II or CSCI 2630 C# Programming II	SP	3	
CSCI 2902 CSCI Practicum or CSCI 2999 Capstone	On Demand	3	
ITST 2258 Application Security	AU	3	
BMGT 2200 Management and Organizational Behavior	AU/SP/SU	3	
PSY 1100 Introduction to Psychology	AU/SP/SU	3	
CSCI 2802 CSCI Seminar	AU/SP/SU	3	
<b>Semester Credits</b>		<b>18</b>	
<b>Total</b>		<b>66</b>	

AU: Autumn Semester/SP: Spring Semester/SU: Summer Semester  
 Requirements subject to change.