

# Recommended Academic Plan for Cybersecurity

Associate in  
Applied Science  
Degree



This plan is a suggested semester-by-semester plan. It is designed to keep you on track for a timely graduation. This plan is not a substitute for academic advising. Contact an advisor for further information regarding placement based on ACT/SAT or Placement exam scores, scheduling, degree requirements, and graduation requirements.

**Note:** To be successful, persons interested in the program should possess a strong foundation in computer hardware/software troubleshooting skills, equivalent to the CompTIA A+ certification. Pre-employment background screening is required for any candidate seeking employment in the cybersecurity field.

## Semester 1 FALL

| Course   | Credits   | Prerequisite        | Milestone/Notes               | Completed |
|--|-----------|---------------------|-------------------------------|-----------|
| IS:153 C# Programming I <b>OR</b><br>IS:187 Java Programming I | 4         | Reading Proficiency |                               |           |
| IS:139 Web Publishing  | 3         | Reading Proficiency |                               |           |
| IS:229 Unix/Linux I  | 3         | Reading Proficiency |                               |           |
| IT:100 Introduction to Cybersecurity                           | 1         | Reading Proficiency |                               |           |
| Natural Science/Mathematics Elective                           | 3         |                     | MTH:160 may be used if needed |           |
| <b>Subtotal</b>  | <b>14</b> |                     |                               |           |

## Semester 2 SPRING

| Course  | Credits   | Prerequisite   | Milestone/Notes                       | Completed |
|---|-----------|--|---------------------------------------|-----------|
| IT:101 Cisco Academy I – Introduction to Networks     | 5         | Basic Computer Literacy Expected and Reading Proficiency           |                                       |           |
| IS:112 Software & Hardware Concepts                   | 3         | MTH: 140, Basic Computer Literacy Expected and Reading Proficiency | OFFERED FALL and SPRING               |           |
| IS:237 Fundamentals of Information Assurance/Security | 3         | IT:102 or IS:229 and Reading Proficiency                           |                                       |           |
| IS:265 Web Scripting                                  | 3         | IS:139 and Reading Proficiency                                     |                                       |           |
| Physical Education Elective                           | 2         |  | At least 1 credit must be an activity |           |
| <b>Subtotal</b>                                       | <b>16</b> |  |                                       |           |

## Semester 3 SUMMER

| Course  | Credits  | Prerequisite  | Milestone/Notes  | Completed |
|---|----------|---|--|-----------|
| ENG:101 English Composition I   | 3        |   |  |           |
| IT:121 Secure E-Commerce and E-Government<br>OR<br>IS:264 Unix/Linux II | 3        | IS:229, IS:237 Both with minimum grade of "C" and Reading Proficiency<br>IS:229 and Reading Proficiency | IT:121 OFFERED SUMMER ONLY<br><br>IS:264 OFFERED FALL and SPRING |           |
| <b>Subtotal</b>   | <b>6</b> |   |  |           |

## Semester 4 FALL

| Course  | Credits   | Prerequisite  | Milestone/Notes   | Completed |
|---|-----------|---|-------------------|-----------|
| IT:212 Ethical Hacking                                      | 3         | IS:237 and Reading Proficiency                            | OFFERED FALL ONLY |           |
| IT:214 Systems Security Engineering                         | 3         | IS:237 and Reading Proficiency                            | OFFERED FALL ONLY |           |
| MTH:186 Survey of Calculus                                  | 4         | MTH:160 with "C" or better and Reading Proficiency        |                   |           |
| ENG:102 College Composition II OR<br>ENG:103 Report Writing | 3         | ENG:100 or 101 with "C" or better and Reading Proficiency |                   |           |
| MO State requirement  | 3         |   |                   |           |
| <b>Subtotal</b>   | <b>16</b> |   |                   |           |

| Semester 5 SPRING                     |           |   |  |           |
|---------------------------------------|-----------|---|--|-----------|
| Course                                | Credits   | Prerequisite                                      | Milestone/Notes  | Completed |
| IS:225 Database Management            | 4         | Reading Proficiency                               | <b>Apply for graduation</b><br>OFFERED FALL and SPRING |           |
| IT:216 Digital Forensics              | 3         | IS:112, IS:237, IS:229 and<br>Reading Proficiency | OFFERED SPRING ONLY                                    |           |
| IT:120 Enterprise Security Management | 3         | IS:237 and Reading Proficiency                    | OFFERED SPRING ONLY                                    |           |
| Social and Behavioral Sciences        | 3         |   |  |           |
| <b>Subtotal</b>                       | <b>13</b> |   |  |           |

**Total Hours in the Program: 65**

\*See Catalog for classes that will fulfill the elective requirements at [catalog.stlcc.edu](http://catalog.stlcc.edu).

\*\*Students completing STLCC's Missouri General Education requirements will receive verification on their transcripts that is recognized by all Missouri public colleges and universities except the University of Missouri-Columbia.

\*\*\*It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice.

**Maximize your transfer credits/classes by meeting with an academic advisor.**

## Cybersecurity – AAS Quick Checklist

| Courses   | Credit Hours | Notes |
|---|--------------|-------|
| <b>GENERAL EDUCATION</b>  |              |       |
| ENG:101 College Composition I   | 3            |       |
| ENG:102 College Composition II or<br>ENG:103 Report Writing                         | 3            |       |
| *Social and Behavioral Sciences Elective that meets the MO State requirement        | 6            |       |
| *Life and Physical Sciences OR Mathematics Elective                                 | 3            |       |
| MTH:186 Survey Calculus   | 4            |       |
| <b>PHYSICAL EDUCATION 2 credit hours</b><br>At least one credit must be an activity |              |       |
| <b>REQUIRED COURSES</b>   |              |       |
| IS:112 Software and Hardware Support  | 3            |       |
| IS:139 Web Publishing   | 3            |       |
| IS:153 C# Programming I or IS:187 Java Programming I                                | 4            |       |
| IS:225 Database Management  | 4            |       |
| IS:229 Unix/Linux I   | 3            |       |
| IS:237 Fundamentals of Information Assurance/Security                               | 3            |       |
| IS:265 Web Scripting Technologies   | 3            |       |
| IT:100 Introduction to Cybersecurity  | 1            |       |
| IT:101 Cisco Networking Academy I: Introduction to Networks                         | 5            |       |
| IT:120 Enterprise Security Management   | 3            |       |
| IT:121 Secure E-Commerce and E-Government or IS:264 Unix/Linux II                   | 3            |       |
| IT:212 Ethical Hacking  | 3            |       |
| IT:214 Systems Security Engineering   | 3            |       |
| IT:216 Digital Forensics  | 3            |       |

For more information, please consult the College Catalog at [catalog.stlcc.edu](http://catalog.stlcc.edu)

### Advisor Contact Information

Name  
Phone  
Email