

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 OR 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 | | |
| *Life and Physical Sciences OR Mathematics Elective that meets the Missouri State Requirement | 3-4 | | MTH:160 may be used if needed | |
| Subtotal | 14-15 | | | |

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 | |
| Subtotal | 16 | | | |

Semester 3 SUMMER

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

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 | Reading Proficiency | | |
| ENG:102 College Composition II OR ENG:103 Report Writing | 3 | ENG:100 or 101 and Reading Proficiency | | |
| *Social and Behavioral Sciences Elective that meets the MO State requirement | 3 | | | |
| Subtotal | 16 | | | |

| Semester 5 SPRING | | | | |
|---|-----------|---|--|-----------|
| Course | Credits | Prerequisite | Milestone/Notes | Completed |
| IS:225 Database Management | 4 | Reading Proficiency | Apply for graduation OFFERED FALL and SPRING | |
| IT:216 Digital Forensics | 3 | IS:112, IS:237, IS:229 and Reading Proficiency | OFFERED SPRING ONLY | |
| IT:120 Enterprise Security Management | 3 | IS:237 and Reading Proficiency | OFFERED SPRING ONLY | |
| *Social and Behavioral Sciences Elective that meets the MO State requirement | 3 | | | |
| Subtotal | 13 | | | |
| Total Hours in the Program: 65-66 | | | | |

*See Catalog for classes that will fulfill the elective requirements at 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 |
| GENERAL EDUCATION | | |
| ENG:101 College Composition I | 3 | |
| ENG:102 College Composition II or ENG:103 Report Writing | 3 | |
| *Social and Behavioral Sciences Elective that meets the MO State requirement | 6 | |
| *Life and Physical Sciences OR Mathematics Elective that meets the Missouri State requirement. | 3 | |
| MTH:186 Survey Calculus | 4 | |
| PHYSICAL EDUCATION 2 credit hours At least one credit must be an activity | | |
| REQUIRED COURSES | | |
| 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

| Advisor Contact Information |
|-----------------------------|
| Name |
| Phone |
| Email |