

## IT Security (2158) (A.S.)

### RECOMMENDED ROADMAP

This Roadmap is a recommended way to complete this program of study. Course availability is subject to change. In some cases, a specific course is shown, but there are other options available. To review and consider other courses, see the note at the bottom of this page. Part-time students should refer to the Recommended Course Sequence list. Consult an Academic Advisor or the Technology department before creating your actual Academic Degree Plan and refer to the [FSCJ Catalog](#) for more information.

#### 1st Term

Course ID	Course Title	Credit Hours	Grade Earned
1* ENC 1101	English Composition I	3	
2* See Note Below	Choose 1 General Education Mathematics	3	
CTS 1131C	Hardware Configuration	3	
CTS 1133C	Software Configuration	3	

**Term Total = 12**

#### 2nd Term

Course ID	Course Title	Credit Hours	Grade Earned
CTS 1120C	Fundamentals of Information Security	3	
CNT 1015	Operating System Foundations	3	
CET 2600	Network Fundamentals (CISCO 1)	3	
CTS 1334	Server Configuration	4	

**Term Total = 13**

#### 3rd Term

Course ID	Course Title	Credit Hours	Grade Earned
3* See Note Below	Choose 1 General Education Communications	3	
2* See Note Below	Choose 1 General Education Social and Behavioral Science	3	
CTS 2655	Routing and Switching Fundamentals (CISCO 2)	4	
CAP 2140	Data Forensics I	4	

**Term Total = 14**

#### 4th Term

Course ID	Course Title	Credit Hours	Grade Earned
CAP 2141	Data Forensics II - Advanced	4	
4* CET 2662	Techniques of Computer Hacking and Incident Handling	4	
4* CNT 2404	Intrusion Detection Systems and Auditing	4	

**Term Total = 12**

#### 5th Term

Course ID	Course Title	Credit Hours	Grade Earned
2* See Note Below	Choose 1 General Education Humanities	3	
6* CNT 2942	Internship	2	
5* CTS 2314	Offensive Security (Advanced Penetration Testing)	4	

**Term Total = 9**

**Total Credit Hours = 60**

#### Program Notes:

- 1\* ENC 1101C can be taken in place of ENC 1101. Please speak with your Advisor for more information.
- 2\* See the options for the [General Education Requirements](#) in the 2020-2021 [FSCJ Catalog](#).
- 3\* General Education Communications options include: ENC 1102, SPC 2017, SPC 2065 or SPC 2608.
- 4\* Courses may be offered in seven-week sessions. CET 2662 will typically be offered in the A7 session and CNT 2404 will typically be offered in the C7 session. Please contact the program advisor for more information.
- 5\* Courses may be offered in seven-week sessions. CTS 2314 will typically be offered in the C7 session. Please contact the program advisor for more information.
- 6\* Student must be within 12 credit hours of degree completion to take this course.

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### RECOMMENDED COURSE SEQUENCE

This list shows a recommended sequence for completing the courses in this program of study. Course availability is subject to change. **Part-time students** should use this list to determine which courses to take next that fit their schedule. In some cases, a specific course is shown, but there are other options available. To review and consider other courses, see the note on page 1. Consult an Academic Advisor or the Technology department before creating your actual Academic Degree Plan and refer to the [FSCJ Catalog](#) for more information.

- **ENC 1101 - English Composition I (Credit Hours: 3) - Prerequisites:** Satisfactory score on reading and writing placement tests. (for non-exempt students only) **See program note 1\*.**
- **Choose 1 General Education Mathematics** (see link below for options). **See program note 2\*.**
- **CTS 1131C - Hardware Configuration (Credit Hours: 3) - Prerequisites:** None.
- **CTS 1133C - Software Configuration (Credit Hours: 3) - Prerequisites:** None.
- **CTS 1120C - Fundamentals of Information Security (Credit Hours: 3) - Prerequisites:** CTS 1131C and CTS 1133C both with a grade of “C” or higher.
- **CNT 1015 - Operating Systems Foundations (Credit Hours: 3) - Prerequisites:** None.
- **CET 2600 - Network Fundamentals (CISCO 1) (Credit Hours: 3) - Prerequisites:** CTS 1131C and CTS 1133C both with a grade of “C” or higher.
- **CTS 1334 - Server Configuration (Credit Hours: 4) - Prerequisites:** CTS 1131C and CTS 1133C both with a grade of “C” or higher.
- **Choose 1 General Education Communications.** **See program note 3\*.**
- **Choose 1 General Education Social and Behavioral Science** (See link below for options). **See program note 2\*.**
- **CTS 2655 - Routing and Switching Fundamentals (CISCO 2) (Credit Hours: 4) – Prerequisites:** CET 2600 with a grade of “C” or higher.
- **CAP 2140 - Data Forensics I (Credit Hours: 4) Prerequisites:** CTS 1131C, CTS 1133C and CTS 1120 all with a grade of “C” or higher.
- **CAP 2141 - Data Forensics II - Advanced (Credit Hours: 4) Prerequisites:** CAP 2140 with a grade of “C” or higher.
- **CET 2662 – Techniques of Computer Hacking and Incident Handling (Credit Hours: 4) Prerequisites:** CTS 1131C, CTS 1133C and CTS 1120 all with a grade of “C” or higher. **See program note 4\*.**
- **CNT 2404 – Intrusion Detection Systems and Auditing (Credit Hours: 4) Prerequisites:** CET 2662 with a grade of “C” or higher. **See program note 4\*.**
- **Choose 1 General Education Humanities** (See link below for options). **See program note 2\*.**
- **CNT 2942 - Internship (Credit Hours: 2) Prerequisites:** None. **See program note 6\*.**
- **CTS 2314 – Offensive Security (Advanced Penetration Testing) (Credit Hours: 4) Prerequisites:** CET 2662, CNT 2404, CNT 1015, CAP 2140 and CAP 2141 all with a grade of “C” or higher. **See program note 5\*.**

**Total Credit Hours = 60**

*To view a list of the [General Education Requirements](https://catalog.fscj.edu/), please visit our online catalog: <https://catalog.fscj.edu/>*

### CAREER OPTIONS

FSCJ is the regional resource for employers in many types of computer technology. Our partnerships with Cisco Systems, Dell, Microsoft, VMware and Citrix provide career connections. Graduates are regularly employed by CSX, JEA, Florida Blue, the City of Jacksonville, Medtronic, Mayo Clinic and other regional employers including the government and military.

According to the Bureau of Labor Statistics, employment of Information Security Analysts is expected to grow 28 percent from 2016 to 2026, much faster than average for all occupations. Demand for these workers is high and will continue to grow since innovative solutions are needed to prevent the hacking of critical data and network damage.

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