

## I.T. Security (2158) (A.S.)

### ASSOCIATE IN SCIENCE RECOMMENDED ROADMAP

This academic roadmap is designed to help you select courses each term for your **Associate in Science Degree in I.T. Security (2158) (A.S.)**. The mission of the I.T. Security (A.S.) degree is to offer a high quality and relevant program that prepares students for distinctive success in I.T. Security careers. This hands-on program is designed to respond to the needs of regional businesses by providing computer-related technical skills for the I.T. Security industry.

Full-time students will refer to the term-by-term recommendations, and part-time students will refer to the course-by-course recommendations. "Mile Markers and Notes" on the Roadmap refer to important guidelines for program completion.

This roadmap is intended to provide general guidance about recommended courses and mile markers. For specific guidance about your individual academic degree plan, please see a program advisor. Please also refer to the College Catalog for additional information.

**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 because innovative solutions are needed to prevent the hacking of critical data and network damage.

Term Offered:    F = Fall    Sp = Spring    Sm = Summer

Available Modalities:    HB = Hybrid    OC = On-Campus    OL = Online

| Full-Time Students:<br>Term-by-Term | Part-Time Students:<br>Course-by-Course | Course: Course Title                            | Credit Hours | Term Offered | Available Modalities | Mile Markers and Notes   |
|-------------------------------------|---|---|--------------|--------------|----------------------|--|
| Term 1                              |   |   |              |              |                      | Complete an academic degree plan with your advisor.<br><br>Follow up with an advisor about any accelerated credits that you may have earned (e.g., dual enrollment, AP, CLEP, Industry Certifications, etc.).<br><br>ENC 1101C can be taken in place of ENC 1101. Please speak with your advisor for more information.<br><br>See the options for the General Education Requirements in the current College Catalog. |
|                                     | 1.                                      | ENC 1101: English Composition I                 | 3            |              |                      |  |
|                                     | 2.                                      | Choose 1 General Education Mathematics          | 3            |              |                      |  |
|                                     | 3.                                      | CTS 1131C: Hardware Configuration               | 3            | F, Sp, Sm    | HB, OC, OL           |  |
|                                     | 4.                                      | CTS 1133C: Software Configuration               | 3            | F, Sp, Sm    | HB, OC, OL           |  |
| Term 2                              | 5.                                      | CTS 1120C: Fundamentals of Information Security | 3            | F, Sp, Sm    | HB, OC, OL           |  |
|                                     | 6.                                      | CNT 1015: Operating System Foundations          | 3            | F, Sp, Sm    | HB, OC, OL           |  |
|                                     | 7.                                      | CET 2600: Network Fundamentals (CISCO 1)        | 3            | F, Sp, Sm    | HB, OC, OL           |  |
|                                     | 8.                                      | CTS 1334: Server Configuration                  | 4            | F, Sp, Sm    | HB, OC, OL           |  |

|                                     |     |  |           |           |            |   |
|-------------------------------------|-----|--|-----------|-----------|------------|---|
| Term 3                              | 9.  | Choose 1 General Education Communications                      | 3         |           |            | The options for General Education Communications include: ENC 1102, SPC 2017, SPC 2065, or SPC 2608. See the options for the General Education Requirements in the current College Catalog.   |
|                                     | 10. | Choose 1 General Education Social and Behavioral Sciences      | 3         |           |            | See the options for the General Education Requirements in the current College Catalog.  |
|                                     | 11. | CTS 2655: Routing and Switching Fundamentals (CISCO 2)         | 4         | F, Sp, Sm | HB, OC     |   |
|                                     | 12. | CAP 2140: Data Forensics I                                     | 4         | F, Sp, Sm | OC, OL     | Contact advisor regarding Cooperative Internship requirements.  |
| Term 4                              | 13. | CAP 2141: Data Forensics II - Advanced                         | 4         | F, Sp, Sm | OC, OL     |   |
|                                     | 14. | CET 2662: Techniques of Computer Hacking and Incident Handling | 4         | F, Sp, Sm | HB, OC, OL | This course may be offered in a seven-week session and will typically be offered in the A7 session. Please speak with your advisor for more information.  |
|                                     | 15. | CNT 2404: Intrusion Detection Systems and Auditing             | 4         | F, Sp, Sm | HB, OC     | This course may be offered in a seven-week session and will typically be offered in the C7 session. Please speak with your advisor for more information.  |
| Term 5                              | 16. | Choose 1 General Education Humanities                          | 3         |           |            | See the options for the General Education Requirements in the current College Catalog.  |
|                                     | 17. | CNT 2942: Internship   | 2         | F, Sp, Sm | HB         | Student must be in their last or next -to-last semester to be eligible to enroll in the internship.   |
|                                     | 18. | CTS 2314: Offensive Security (Advanced Penetration Testing)    | 4         | F, Sp, Sm | OL         | This course may be offered in a seven-week session and will typically be offered in the C7 session. Please speak with your advisor for more information.<br><br>Apply for graduation by the required date.<br><br><i>Congratulations, Graduate! Celebrate your success at Commencement!</i> |
| <b>Total Program Credit Hours =</b> |     |  | <b>60</b> |           |            |   |

## Important for You to Know:

- This academic roadmap does not include developmental education courses in reading, writing, and/or mathematics that you may be required to take. In addition, it does not include MAT 1033: Intermediate Algebra, which, for many students, is a prerequisite course for MAC 1105. Please consult with an advisor for individual assistance.
- Internships are a perfect way to network and display your educational knowledge. The School of Technology and Industry does not assign you to an internship position; rather, this process is similar to finding employment. The desired position should be related to your respective degree. Once the internship location has been identified, please contact your advisor for an Internship Approval form. The form should be completed and then emailed to the facilitating instructor for that semester. Please note that you will not have the ability to self-register for the internship class. A representative from the Technology department will register you for the class once approval has been given by the instructor.
- FSCJ offers a great resource for students! It's called the Career Development department, which provides an array of services. Please use the following link to explore: <https://www.fscj.edu/student-services/career-development> .

Additionally, FSCJ partners with CareerSource of Northeast Florida. CareerSource offers internship and employment assistance to our students. There are CareerSource offices at most campuses and centers. Please use the following link for off-campus locations: <https://careersourcenortheastflorida.com/locations>.