



**Bachelor of Applied Science in Computer Information Systems Technology  
Cybersecurity Specialization**

**Associate Degree Awarded 60 Credit hours**

An AS or AA degree from a Regionally Accredited Institution is required for admission into EFSC BAS programs

**General Education Credit Requirement**

Students entering the program with an Associate in Arts degree from a Florida state institution will receive credit for all 36 general education credits. Students entering the program with an AS degree, or an AA degree from an institution other than a Florida state institution may need to complete additional general education credits.

**Technical Elective Requirement**

Students entering the program with an Associate in Arts degree may need to complete additional Technical Electives. Technical Electives are 1000 and 2000 level courses in a computer related area. Students entering the program with an AS degree may already have this requirement completed depending on the focus of their AS degree. 21 credits of Technical Electives are required.

**Math and Programming Requirements**

The courses below are required to obtain the BAS degree in Computer Information Systems Technology. Some students may have already completed these courses during their AA or AS degree. If not, they can be completed during the BAS program.

STA 2023	Statistics Prerequisite: MAC 1105 - College Algebra or MGF 1106 - Topic in Math	3
COP 2334	Intro to C++ Prerequisite: COP 1000 -Intro to Programming	3
<b>Common Required Core (complete all courses)</b>		<b>Credits: 12</b>
GEB 3213	Foundations of Managerial Communications Prerequisite : ENC 1101- <i>Composition I</i> - with 'C' or higher )	3
ISM 3011	<b>Introduction to Information Tech Management</b>	3
ISM 4300	<b>Information Systems Operations Management</b> Prerequisite: ISM 3113 - <i>Info Systems Analysis &amp;Design (Co-req ISM 3011 - Intro to Info Tech Mgmt)</i>  OR ISM 4041 - <i>Emerging Information Technologies</i> Prerequisite - ISM 3011 - <i>Intro to Info Tech Mgmt</i>	3
MAN 4504	<b>Operational Decision Making</b>	3

<b>Cybersecurity Specialization Major Courses</b>		<b>Credits: 18</b>
CISC 3391	<b>Computer Forensics</b> <b>Prerequisites:</b> CTS 1321 - <i>Linux Networking and Sys Admin</i> Prerequisites: CGS 1000 - <i>Exploring Digital Technology</i> CTS 1383 - <i>Micorsoft Server O/S - Installation and Configuration</i> Prerequisites: CTS 1329 - <i>Microsoft Client O/S</i>	3
CISC 3392	<b>Windows Forensics</b> <b>Prerequisites:</b> CTS 1383 - <i>Micorsoft Server O/S - Installation and Configuration</i> Prerequisites: CTS 1329 - <i>Microsoft Client O/S</i> COP 3330 - <i>Object Oriented Programming</i> Prerequisite - COP 2334 - <i>Intro to C++</i> Prerequisite: COP 1000 - <i>Principles of Programming</i>	3
CNT 3403	<b>Network Defense Security</b> <b>Prerequisite:</b> CTSC 2120 - <i>Network Security Fundamentals</i> Prerequisite: CTSC 1134 - <i>Network +</i>	3
ISM 3321	<b>Cybersecurity Fundamentals</b> <b>Prerequisite:</b> CTSC 2120 - <i>Network Security Fundamentals</i> Prerequisite: CTSC 1134 - <i>Network +</i>	3
ISM 3322	<b>Advanced Cybersecurity Concepts</b> <b>Prerequisite:</b> ISM 3321 - <i>Cybersecurity Fundamentals</i>	3
COP 3703	<b>Database Design/Architecture</b> <b>Prerequisites:</b> COP 2700 - <i>Database Techniques</i> Prerequisite: CGS 2100 - <i>Microcomputer Applications</i>	3
<b>Cybersecurity Specialization - select 3 courses</b>		<b>Credits: 9</b>
ISM 3113	<b>Information Systems Analysis and Design</b> <b>Co-requisite:</b> ISM 3011 - <i>Intro to Info Tech Mgmt</i>	3
COP 3330	<b>Object Oriented Programming</b> <b>Prerequisite:</b> COP 2334 - <i>Intro to C++</i> Prerequisite: COP 1000 - <i>Principles of Programming</i>	3
ISM 3324	<b>Applications in Information Security</b> <b>Prerequisite -</b> COP 3330 - <i>Object Oriented Programming</i> Prerequisite: COP 2334 - <i>Intro to C++</i> Prerequisite: COP 1000 - <i>Principles of Programming</i>	3
COP 3813	<b>Internet Programming</b> <b>Prerequisite:</b> COP 3330 - <i>Object Oriented Programming</i> Prerequisite: COP 2334 - <i>Intro to C++</i> Prerequisite: COP 1000 - <i>Principles of Programming</i>	3
CEN 4341	<b>Platform Technology</b> <b>Prerequisites:</b> CNT 3403 - <i>Network Defense Security</i> Prerequisites: CTSC 2120 - <i>Network Security Fundamentals</i> Prerequisite: CTSC 1134 - <i>Network +</i> CTS 1321 - <i>Linux Networking/Sys Admin</i> Prerequisites: CGS 1000 - <i>Exploring Digital Technology</i> CTS 1383 - <i>Micorsoft Server O/S - Installation and Configuration</i> Prerequisites: CTS 1329 - <i>Microsoft Client O/S</i>	3
CNT 4704	<b>Network Planning and Design</b> <b>Prerequisite:</b> CTSC 2652 - <i>Cisco Advanced Router Technology</i> Prerequisites: CTSC 1651 - <i>Cisco Router Technology</i> Prerequisite: CTSC 1134 - <i>Network +</i>	3
COP 4849	<b>Web Applications Programming</b> <b>Prerequisites:</b> CTSC 1134 - <i>Network +</i> COP 2700 - <i>Database Techniques</i>	

	Prerequisite: CGS 2100 - <i>Microcomputer Applications</i> COP 2822 - <i>Web Page Authoring</i> Prerequisite: CGS 2100 - <i>Microcomputer Applications</i> COP 3813 - <i>Internet Programming</i> Prerequisite: COP 3330 - <i>Object Oriented Programming</i> Prerequisite: COP 2334 - <i>Intro to C++</i> Prerequisite: COP 1000 - <i>Principles of Programming</i>	3
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CEN 4949	<b>Internship</b>	3
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<b>Total Credits</b>		<b>120</b>
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Note: Must show proficiency in a foreign language through two years in high school with a 'D' or better in all semesters, completion of the second level of a foreign language at the college level, or completion of a proficiency exam. Foreign language taken at the college level **does not** satisfy the General Education or Technical Concentration credits.

Note: All prerequisites must be completed with a grade of "C" or higher

Note: Students may earn the BAS/CTBS degree once, choosing one specialization from available tracks. If BAS graduates wish to take courses from another specialization within this degree, they may do so as a non-degree student. The official curriculum in the current online EFSC catalog supersedes this document. EFSC reserves the right to make changes in the online and printed versions of the curriculum as circumstances require. It is expected that the only changes will be the correction of errors and the inclusion of new courses and programs approved during the academic year.

For additional information please contact Bachelor Advising at 321-433-7241 [Bachelor@easternflorida.edu](mailto:Bachelor@easternflorida.edu) or visit [easternflorida.edu/go/bachelors](http://easternflorida.edu/go/bachelors)