# **B.S. in Cyber Intelligence and Security**

The Cyber Intelligence and Security (CI) degree program, offered by the College of Business, Security and Intelligence is designed to provide graduates with the knowledge and skills essential for entry into many areas of cyber security work including: cyber analytics, incident response, network security and cyber security operations, and management careers.

Our students are encouraged to think beyond traditional academic boundaries and seek workplace and cultural experiences that will enrich and enlighten them on the evolving workplace and the global internet/ business environment. Dedicated faculty advisors assist CI students in evaluating the many opportunities available to them in this program. Emphasis is placed on effective communications, quantitative skills, global awareness, social responsibility, ethical and legal grounding, information technology, critical thinking skills, teamwork, computer and network functional skills, broad cyber industry familiarity, and a commitment to lifelong learning.

Course requirements include a core computer science foundation with lectures and labs, group/individual projects and presentations, and a blend of theory and applications to best prepare students for a variety of positions in the workplace. Colloquia, forums, visiting speakers, interesting field trip experiences, and interdisciplinary opportunities/ activities serve to enrich the curriculum. Diverse elective courses allow students to broaden their general education interests or pursue specific interests in many specialized areas, including international commerce, uncrewed aviation, global security and intelligence, and culture and language.

The Bachelor of Science degree program in Cyber Intelligence and Security is accredited by the Computing Accreditation Commission (CAC) of ABET (https://www.abet.org/). This program is also recognized as a NSA and DHS Center of Academic Excellence (CAE) Program of Study, signifying its commitment to excellence in cybersecurity education and research (https://www.caecommunity.org).

#### Students will:

- Apply principles of computing and other relevant disciplines to analyze and solve complex computing problems.
- Implement computing-based solutions to meet specific computing requirements within their program's discipline.
- · Communicate effectively in a variety of professional contexts.
- Observe professional responsibilities to make informed judgments in computing practice based on legal and ethical principles.
- Function effectively as members or leaders of teams engaged in activities appropriate to their program's discipline.
- Apply security principles and practices to maintain operations in the presence of risks and threats.

# **Degree Requirements**

The Bachelor of Science degree in Cyber Intelligence and Security requires successful completion of a minimum of 120 credit hours and is normally completed in eight semesters. Students choose one of three options as a part of their senior capstone - either a project, a thesis, or internship/coop program. Some courses may require prerequisite subject knowledge or particular class standing. Course descriptions should be reviewed prior to registration to ensure proper placement.

The National Security Agency (NSA) and the Department of Homeland Security (DHS) jointly sponsor the National Centers of Academic Excellence in Cyber Defense (CAE-CD) program, and have designated the Prescott Campus as a NSA/DHS CAE-CD institution with its degree programs in Cyber Intelligence and Security meeting their stringent criteria. Embry-Riddle is a sponsor and mentor for the National Cyber Patriot program and a member of the National CyberWatch Network.

In order to be awarded this degree, a student is required to complete a minimum of 80% of the core in residence or transfer those credits from institutions approved by the Department Chair.

Students should follow the suggested course of study--taking 200, 300, and 400 level courses in sequence--unless otherwise approved by the Department Chair. This will provide the student with the greatest chance of success.

# **Program Requirements**

### **General Education**

Embry-Riddle degree programs require students to complete a minimum of 36 hours of General Education coursework. For a full description of Embry-Riddle General Education guidelines, please see the General Education section of this catalog.

Students may choose other classes outside of their requirements, but doing so can result in the student having to complete more than the degree's 120 credit hours. This will result in additional *time and cost* to the student.

Total Credits	36
3 hours of Upper-Level Humanities or Social Science	
3 hours of Lower-Level or Upper-Level Humanities or Social Science	
3 hours of Lower-Level Social Science	
3 hours of Lower-Level Humanities	
Humanities and Social Sciences	12
Physical and Life Sciences (Natural Sciences)	6
Mathematics	6
Computer Science/Information Technology	3
Communication Theory and Skills	9

## Cyber Intelligence and Security Core (89 Credits)

The following course of study outlines the quickest and most cost-efficient route for students to earn their B.S. in Cyber Intelligence and Security. Students are encouraged to follow the course of study to ensure they complete all program required courses and their prerequisites within four years.

Courses in the core with a # will satisfy your general education requirements.

ACC 210	Financial Accounting *	3
ACC 329	Forensic Accounting and Fraud Examination $^{*}$	3
BA 201	Principles of Management	3
CI 120	Introduction to Cyber Security Majors	3
CI 201	Introduction to Linux, Unix, Windows, and Scripting	3
CI 320	Ethical Hacker - Pen Testing *	3
CI 330	Software Security	3
CI 340	Database System Security	3
CI 410	Malware Analysis **	3
CI 460	Big Data Analytics and Machine Learning	3
COM 122	English Composition #	3
COM 219	Speech <sup>#</sup>	3
COM 223	Intelligence Writing #	3
CS 118	Fundamentals of Computer Programming #	3
CS 125	Computer Science I	4
CS 213	Introduction to Computer Networks *	3
CS 304	Introduction to Computer Forensics *	3
CS 315	Data Structures and Analysis of Algorithms *	3
CS 420	Operating Systems <sup>*</sup>	3

#### 2 B.S. in Cyber Intelligence and Security

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General Education	on - Humanities Lower-Level Elective #	3
General Education	on - Humanities or Social Science Lower-Level	3
General Education	on - Humanities or Social Science Upper-Level	3
General Education lab) #	on - Natural Science Elective (One must include a	7
General Education	on - Social Science Lower-Level Elective <sup>#</sup>	3
MA 111	Pre-Calculus for Aviation <sup>#</sup>	3
MA 112	Applied Calculus for Aviation <sup>#</sup>	3
MA 225	Introduction to Discrete Structures	3
MA 314	Applied Linear Algebra & Statistics **	3
Intelligence and	Security Concentration (21 Credits)	
CI 310	Intelligence, Surveillance and Reconnaissance $_{**}^{**}$	3
CI 311	Securing Computer Networks	3
CI 450	Computer Forensics II **	3
CS 303	Cryptography and Network Security **	3
CS 432	Information and Computer Security **	3
SIS 210	Security Fundamentals	3
SIS 315	Studies in Global Intelligence I	3
Senior Caps	tone (3 Credits)	
Choose one of	the following:	
CI 475	Cyber Senior Thesis **	3
CI 490	Cyber Capstone Project **	3
CECIS 497	Senior Capstone Option	3

## **Open Electives (7 Credits)**

Open Electives	7
Total Credits	120

\* Offered in Fall Only

\*\* Offered in Spring Only

# General Education Course

All Army ROTC students are required to complete SS 321 - U.S. Military History 1900-Present (3 credits) in order to commission.

#### Cyber Intelligence and Security - General

Freshman Year		
Fall		Credits
CI 120	Introduction to Cyber Security Majors	3
COM 122	English Composition	3
CS 118	Fundamentals of Computer Programming	3
MA 111	Pre-Calculus for Aviation	3
	Social Science Lower-Level Elective	3
UNIV 101	College Success	(1)
	Credits Subtotal	15.0
Spring		
BA 201	Principles of Management	3
CI 201	Introduction to Linux, Unix, Windows, and Scripting	3
CS 125	Computer Science I	4
	Humanities Lower-Level Elective	3
MA 112	Applied Calculus for Aviation	3
	Credits Subtotal	16.0
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CS 315       Data Structures and Analysis of Algorithms         MA 225       Introduction to Discrete Structures         Natural Science Elective       Credits Subtotal         Spring       Credits Subtotal         ACC 210       Financial Accounting         Cl 311       Securing Computer Networks         CS 303       Cryptography and Network Security         MA 314       Applied Linear Algebra & Statistics         Natural Science Elective with Lab       Credits Subtotal         Junior Year       Fall         Fall       Cl 320         Cl 320       Ethical Hacker - Pen Testing         Cl 330       Software Security         CS 304       Introduction to Computer Forensics         Humanities or Social Science Lower-Level Elective       Elective         SIS 210       Security Fundamentals         Credits Subtotal       Spring         Cl 340       Database System Security         Cl 340       Database System Security         Cl 340       Database System Security         Cl 450       Computer Forensics II         Computer Forensics II       Credits Subtotal         Senior Year       Fall         ACC 329       Forensic Accounting and Fraud Examination         Cl 460	3 3 3 <b>12.0</b>
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