

CYBERSECURITY, ASSOCIATE OF SCIENCE DEGREE

3_AS_CYBR2

The Cybersecurity program will give the students the hands-on skills needed for an entry-level career or promotion in cybersecurity. The courses provide an overview of the field of cybersecurity as related to computer networking. Topics covered will include computer network security, Windows and Linux operating system security, digital forensics, penetration testing, incident monitoring and analysis, incident response, firewalls, intrusion detection and prevention systems, computer security policies and procedures, e-mail & Web security, and securing a computer network.

Program Level Student Learning Outcomes

Upon completion of this program, students will be able to:

1. Demonstrate the ability to locate technical resources to solve security-related problems with networking hardware and software.
2. Demonstrate proficiency with various tools to solve common security vulnerabilities using theories learned in the classroom to design and implement a workable solution.
3. Assess and evaluate computer incidents and recommend an incident response solution based on industry best practices.

Associate Degree Requirements

Unit Requirement

Complete at least 60 units of acceptable college work with a minimum of 12 units completed in residence at Coastline. Earn an overall grade point average of 2.0 or higher from all colleges attended and a 2.0 or higher grade point average at Coastline.

*Students must be in good academic standing (not on probation and/or disqualification) during the semester graduation is petitioned.

Program of Study

Complete the required courses in one of the programs as detailed in the Academic/Career/Certificate Programs section of this catalog. All coursework must be completed with a grade of C or higher.

General Education

Complete one of the three General Education options below (visit the General Education page for details (<https://catalog.cccd.edu/coastline/general-education/>)):

Option 1 – Coastline General Education: designed for students pursuing an Associate degree and who may or may not be planning to transfer to a four-year university. The degree is transferable to many colleges and universities.

Option 2—CSU GE Breadth: designed for students who are planning to transfer to a university in the CSU system. It may also be appropriate for transfer to some independent colleges and universities.

Option 3—IGETC: designed for students who are planning to transfer to a university in the CSU or UC system. It also may be appropriate for transfer to some independent colleges and universities.

Global and Multicultural Studies Requirement

Complete at least 2.5 units from any Global and Multicultural Studies courses. See what courses fulfill the Global and Multicultural Studies Requirement (<https://catalog.cccd.edu/coastline/graduation-requirements/#globalandmulticulturalstudies>).

Course	Title	Units
Required Core		
Students will complete all of the following:		
CST C128	Network+	3
CST C158	Server+	3
CST C230	Introduction to Security	3
CIS C157	Introduction to Python Programming	3
Program Electives		
Select three of the following:		
CST C191A	CompTIA Linux+	9
CST C231	CompTIA Advanced Security Practitioner	
CST C232B	Introduction to Ethical Hacking	
CST C242	PenTest+	
CST C245	Introduction to Digital Forensics	
CST C253	Cisco ASA, PIX, and Network Security	
CST C255	Cybersecurity Analyst+	
CST C258	Linux Networking and Security	
CST C260	Certified Information Systems Security Professional	
Total Units		21
Requirement		
Total Units for Major Preparation		21
Degree Option 1, 2, or 3		Varies
Electives to satisfy unit requirement		Varies
Total Degree Units		60