

**PROGRAM DESCRIPTION:**

The Cyber Security Professional Degree helps students enter the amazing field of Cyber Security, which is a dynamic, opportunity filled and high paying field. This degree starts by introducing the core topics within Computer Information Systems and Cyber Security. We then move into using tools, cyber ops standards, automation and advanced hacking techniques to equip students with the skills needed to defend an organization from cyber-attacks. Finally, we introduce advanced security and cloud administration to complete the degree.

**CAREER AT A GLANCE:**
**HOW DO I KNOW IF THIS MAJOR IS FOR ME?**

- You enjoy learning about computers
- You like listening to people and coming up with solutions to problems
- You like to diagnose and troubleshoot computer or network problems
- You enjoy installing software programs
- You like set procedures and routines
- You are good at applying critical thinking strategies
- You want to work independently and on a team
- You want to plan and implement effective computer systems
- You want to learn about computer programming
- You like to gather, evaluate and correlate information

*Use Focus2Career on your MyChaffey portal to learn more about careers and majors that fit you best.*

**WHERE CAN I WORK?**

Internet Access Providers	Wireless Service Providers
Computer Repair Companies	Small Businesses
Government Offices	City/County Offices
Educational Institutions	Medical Facilities

*For more information visit: [www.labormarketinfo.edd.ca.gov/OccGuides](http://www.labormarketinfo.edd.ca.gov/OccGuides)*

**HOW DO I GET STARTED?**

- Start taking introductory computer technology courses
- Job shadow and network with information technology professionals
- Volunteer to work on new projects
- Update resume with technology proficiencies, experiences and related coursework

**WHAT CAN I DO WITH THIS CERTIFICATE AND/OR ASSOCIATE DEGREE?**

<i>Position Title</i>	<i>CA Median Salary</i>
Computer Support Specialist	\$59,430
Computer Technician	\$59,430
Help Desk Analyst	\$59,430
Network Support Specialist	\$72,080
Information Technology Specialist	\$108,390
Network Technician	\$72,080
Technical Support Specialist	\$59,430

**WHAT CAN I DO WITH HIGHER EDUCATION AND ADDITIONAL TRAINING?**

<i>Position Title</i>	<i>CA Median Salary</i>
Information Security Analyst	\$108,390
Network Security Analyst	\$108,390
Data Security Administrator	\$95,500
Intelligence Analyst	\$95,560
Security Manager	\$125,700
Computer Systems Analyst	\$97,940
Network Administrator	\$92,290
Computer Network Architect	\$125,190
Information Systems Director	\$161,830
Database Administrator	\$95,500
Information Research Scientist	\$123,130
Software Quality Assurance	\$94,070
Software Developer	\$121,210
Computer Programmer	\$93,620

*For more information about careers, education and training requirements, salary data, and job outlooks visit*

*[www.onetonline.org](http://www.onetonline.org)*

For additional information about career pathways and to find out if this major is a good fit for you visit the Career Center located in MACC 203. Career information was collected from [www.onetonline.org](http://www.onetonline.org) and [www.bls.gov](http://www.bls.gov).

**MAJOR AND COURSE REQUIREMENTS:**

**LEGEND:** G=Grade    IP=In Progress    N=Need    **Bold: Prerequisites**    Plain Text: No Prerequisites

<i>Major Requirements for the Associate in Science Degree: (S483)</i>		Grade	IP	Need	Units
CIS 1	Introduction to Computer Information Systems				3
CIS 4	Fundamentals of Microsoft Windows				1.5
<b>CIS 50</b>	<b>Introduction to Computer Networks</b> (or CISCO 1, Cisco Internetworking I, 4)				<b>3</b>
<b>CIS 65</b>	<b>Digital Forensics Fundamentals (or CISNTWK 471, AWS Academy Cloud Computing Architecture, 4)</b>				<b>3</b>
<b>CISNTWK 11</b>	<b>Microsoft Network Server</b>				<b>3</b>
<b>CISNTWK 12</b>	<b>Introduction to Network Security Administration</b>				<b>3</b>
<b>CISNTWK 20</b>	<b>Introduction to Cybersecurity: Ethical Hacking</b>				<b>3</b>
<b>CISNTWK 25</b>	<b>Cyber Security Operations and Analysis</b>				<b>3</b>
<b>CISNTWK 70</b>	<b>Virtualization and Cloud Essentials</b> and Amazon Web Services (AWS) (or CISCO 416, Cisco Internetworking VI)				<b>4</b>
COMPSCI 1	Programming Concepts and Methodology I				3

Student Name: \_\_\_\_\_

ID#: \_\_\_\_\_

Date: \_\_\_\_\_

Counselor: \_\_\_\_\_

This certificate is where students can lay the foundation for a career in Cyber Security starting with the core competencies in Computer Information Systems and Cyber Security. Coursework includes networking, systems administration, and core Cyber Security topics.

<i>Requirements for the Cyber Security Analyst Certificate: (B481)</i>		Grade	IP	Need	Units
CIS 1	Introduction to Computer Information Systems				3
CIS 4	Fundamentals of Microsoft Windows				1.5
<b>CIS 50</b>	<b>Introduction to Computer Networks</b> (or CISCO 1, Cisco Internetworking I, 4)				<b>3</b>
<b>CISNTWK 11</b>	<b>Microsoft Network Server</b>				<b>3</b>
<b>CISNTWK 12</b>	<b>Introduction to Network Security Administration</b>				<b>3</b>

This certificate will build upon the foundations of the Analyst Certificate and equips the student with the skill set to defend an organization in cyber space. The curriculum will cover to tools, techniques and advanced topics in ethical hacking.

<i>Requirements for the Cyber Security Defender Certificate: (L482)</i>		Grade	IP	Need	Units
CIS 1	Introduction to Computer Information Systems				3
CIS 4	Fundamentals of Microsoft Windows				1.5
<b>CIS 50</b>	<b>Introduction to Computer Networks</b> (or CISCO 1, Cisco Internetworking I, 4)				<b>3</b>
<b>CISNTWK 11</b>	<b>Microsoft Network Server</b>				<b>3</b>
<b>CISNTWK 12</b>	<b>Introduction to Network Security Administration</b>				<b>3</b>
<b>CISNTWK 20</b>	<b>Introduction to Cybersecurity: Ethical Hacking</b>				<b>3</b>
COMPSCI 1	Programming Concepts and Methodology I				3

COUNSELOR NOTES:

\$46 per unit for CA Residents
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All courses required for a certificate must be completed with a minimum grade of C.