

# CYBERSECURITY

## DEGREES, CERTIFICATES AND AWARDS

### Certificate of Achievement

#### DESCRIPTION

The Cybersecurity certificate will certify that you have the knowledge and skills set to keep an organization's information technology infrastructure functioning and secure.

A computer systems administrator maintains an organization's work flow and keeps its lines of communication open. They are responsible for the upkeep, configuration, and reliable operation of computer systems; especially multi-user computers, such as servers. System security encompasses all facets of accessing information assets. From operating at its optimum. These best practices help to mitigate various security concerns.

#### PROGRAM LEARNING OUTCOMES

1. Demonstrate aptitude and competence for working with Cisco routers, switches and Cisco IOS.
2. Show the practical skills required for associate-level networking support positions.
3. Demonstrate skills necessary to pass two different Cisco certification exams, CCENT or CCNA.

#### CERTIFICATE OF ACHIEVEMENT PROGRAM

The **Certificate of Achievement** program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate.; (2) achieve a "C" average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

#### CAREER OPPORTUNITIES

- Security Analyst
- Security Architect
- Security Software Designer
- Security Engineer
- Cryptanalyst
- Security Administrator
- Cryptographer
- Security Consultant

#### TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree at Imperial Valley College may not be the same as those required for completing the major at a transfer institution offering a bachelor's degree. Students who plan to transfer to a four-year college or university should schedule an appointment with an IVC Counselor to develop a student education plan (SEP) before beginning their program.

#### Transfer Resources:

[www.ASSIST.org](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://www.aiccu.edu) – California Independent Colleges and Universities, Association of

<http://wiche.edu/wue> - Western Undergraduate Exchange Programs

#### FINANCIAL AID

Paying for the cost of a college education requires a partnership among parents, students and the college. As the cost of higher education continues to rise we want you to know that IVC offers a full array of financial aid programs – grants, work study, scholarships, and fee waivers (we do not participate in the federal loan programs). These programs are available to both full and part time students who are seeking a degree or certificate. For those who qualify, financial aid is available to help with tuition, fees, books and supplies, food, housing, transportation, and childcare. Please log onto our website for additional information: [www.imperial.edu/students/financial-aid-and-scholarships/](http://www.imperial.edu/students/financial-aid-and-scholarships/)

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## CERTIFICATE PROGRAM

### CYBERSECURITY

Twelve (12.0) units required for the certificate.

ALL COURSES FOR THIS CERTIFICATE MUST BE COMPLETED WITH A MINIMUM GRADE OF "C" OR BETTER.

#### I. Required courses for the certificate (12.0 units)

CIS	161	Introduction to Cybersecurity: Ethical Hacking	3.0
CIS	162	Computer Network Fundamentals	3.0
CIS	166	Digital Forensics	3.0
CIS	167	Systems and Network Administration	3.0

**Total Certificate Units** **12.0**