

NETWORK & INFORMATION SYSTEM SECURITY (CA) CERTIFICATE OF ACHIEVEMENT

Program Learning Outcomes

Upon successful completion of this program, you will be able to:

- 1. Install, configure, and manage industry-standard computer operating systems with a security focus
- 2. Install, configure, manage, and troubleshoot enterprise network systems
- 3. Install and configure routers and switches using internetwork operating systems
- 4. Apply a full range of cybersecurity concepts and best practices
- 5. Understand and implement cloud and virtualization technologies

REQUIRED COURSES:

Core Courses (12 Units)

- CIS 211 Security+ Certification Preparation
- CIS 214 Introduction to Network+
- CIS 215 Network Security Fundamentals
- CIS 110 Apple Administration

Electives (Choose Two | 6 Units)

- CIS 104 Microcomputer Applications
- CIS 110 Apple Administration
- CIS 112 Operating Systems: Beginning Linux
- CIS 192 Introduction to Cloud Computing
- CIS 212 A+ Certification Preparation: Hardware
- CIS 213 A+ Certification Preparation: Software
- CS 101 Introduction to Computer Science

JOIN A GLOBAL
TECH COMMUNITY
AND
AND
COLLABORATE
WITH
INNOVATORS.

Get Trained. Get Certified. Get Hired.



Required Course: Total 18 units

www.wlac.edu/computer-science Prof. Chiang email: ChiangAS@wlac.edu YOU'LL LEARN TO DESIGN, SECURE, AND MANAGE ENTERPRISE NETWORKS USING INDUSTRY-LEADING TOOLS AND TECHNOLOGIES, WHILE PREPARING FOR KEY CERTIFICATIONS LIKE SECURITY+, NETWORK+, A+, AND MORE.





COMPUTER NETWORK MANAGEMENT (CA) **CERTIFICATE OF ACHIEVEMENT**

Program Learning Outcomes

- Upon successful completion of this program, students will be able to:
- Install, configure, and manage industry-standard computer operating systems with a security emphasis
- Install, configure, manage, and troubleshoot industry-leading network systems
- Install and configure routers and switches with internetwork operating systems
- Understand a full range of security concepts and techniques
- Learn cloud and virtualization technologies

REQUIRED COURSES:

Core Courses (12 Units)

- CIS 225 Enterprise Networking, Security, & Automation (3 units)
- CIS 227 Server Administration and Network Security (3 units)
- CIS 229 Introduction to CISCO Network Fundamentals (3 units)
- CIS 230 Intro to Cisco Routers (3 units)

Electives (Choose Two | 6 Units)

- CIS 105 Intro to Data Analytics
- CIS 124 Data Analytics: Excel & Access
- CIS 110 Apple Administration
- CIS 192 Introduction to Cloud Computing
- CIS 212 A+ Certification Prep: Hardware
- CIS 213 A+ Certification Prep: Software

Required Course: Total 18 units





GAIN IN-DEMAND SKILLS FOR HIGH-PAYING, **FUTURE-PROOF** CAREERS.



www.wlac.edu/computer-science Prof. Chiang email: ChiangAS@wlac.edu THIS PROGRAM ALSO PREPARES YOU FOR INDUSTRY CERTIFICATIONS, GIVING YOU A COMPETITIVE EDGE IN THE IT JOB MARKET.



COMPUTER NETWORK AND SECURITY MANAGEMENT (CA)

The Certificate of Achievement in Computer Network and Security Management prepares you for high-demand IT careers by combining real-world training with industry certification Students will be able to:

- 1. Install, configure, and manage industry-standard computer operating systems with a focus on security
- 2. Install, manage, and troubleshoot network systems
- 3. Configure and manage routers and switches (Cisco)
- 4. Administer server network operating systems & infrastructure
- 5. Understand and apply network, application, and system security techniques
- 6. Learn and manage cloud and virtualized environments

REQUIRED: TOTAL 30 UNITS

THIS PROGRAM IS IDEAL FOR STUDENTS
PREPARING TO TAKE MICROSOFT AND
CISCO CERTIFICATION EXAMS

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<u>Prof. Chiang email: ChiangAS@wlac.edu</u>



Required Core Courses: Total 24 units

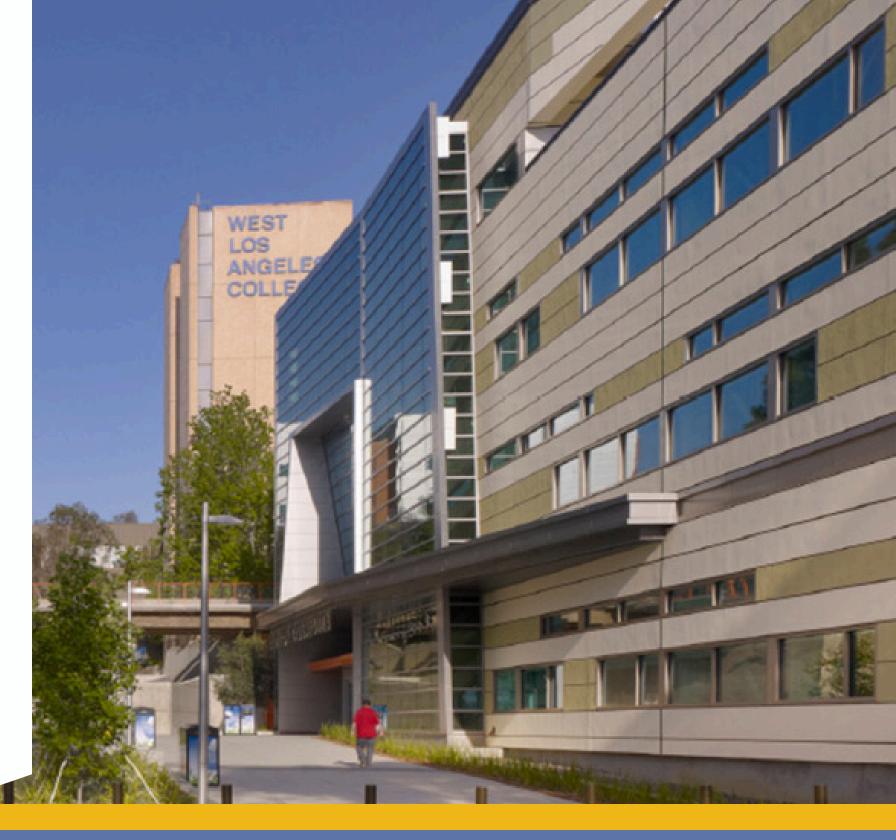
| Course Code | Course Title | Units |
|-------------|---|-------|
| CIS 110 | Apple Administration | 3 |
| CIS 211 | Security+ Certification Preparation | 3 |
| CIS 213 | A+ Certification Preparation Software | 3 |
| CIS 214 | Introduction to Network+ | 3 |
| CIS 215 | Network Security Fundamentals | 3 |
| CIS 227 | Server Administration and Network Security | 3 |
| CIS 229 | Introduction to CISCO Network Fundamentals | 3 |
| CIS 230 | Intro to Cisco Routers | 3 |

Major Elective Courses (Choose 2 - 6 Units)

| Course Code | Course Title | Units |
|-------------|--|-------|
| CIS 104 | Microcomputer Application Software | 3 |
| CIS 112 | Operating Systems – Beginning Linux | 3 |
| CIS 192 | Introduction to Cloud Computing | 3 |
| CIS 212 | A+ Certification Preparation – Hardware | 3 |
| CIS 225 | Enterprise Networking, Security & Automation | 3 |



COMPUTER NETWORK AND SECURITY MANAGEMENT (AS)



COMPUTER NETWORK AND SECURITY MANAGEMENT

Associate of Science (AS) Degree Computer Science & Application Division

The Computer Network and Security Management AS Degree is a 2-year program designed to prepare you for in-demand IT careers, including:

- Network System Administrator
- Network Security Specialist
- Cybersecurity Analyst

Graduates of this program will be able to:

- 1. Install, configure, and manage industry-standard operating systems with a focus on security.
- 2. Troubleshoot and maintain industry-leading network systems.
- 3. Set up and manage routers and switches with internetwork operating systems.
- 4. Understand a full range of network security concepts and techniques.

COMPUTER NETWORK AND SECURITY MANAGEMENT Required Course: Total 24

| Course | |
|---|---|
| CIS 110- Apple Administration | 3 |
| CIS 211- Security+ Certification Preparation | 3 |
| CIS 213- A+ Certification Preparation Software | 3 |
| CIS 214- Introduction to Network + | 3 |
| CIS 215- Network Security Fundamentals | 3 |
| CIS 227- Server Administration and Network Security | 3 |
| CIS 229- Introduction to CISCO Network Fundamentals | 3 |
| CIS 230- Intro to Cisco Routers | 3 |

Major elective units (choose two more courses total 6 units)

| Total Major Units | 30 |
|---|----|
| LACCD GE Plan Units (less double-counted) | 24 |
| Additional Degree-applicable Elective Units | 6 |
| Total Units | 60 |



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