



# Network Administration A.S. Degree

This program map represents one possible path for completing this program. **Please see a counselor** to create an educational plan that is customized to meet your needs. This path is not a guarantee of course availability or financial aid applicability.

**Catalog:** 2024-25

**Total Units:** 60-61

## First Year

### Semester 1

16 Units

CAT.	COURSE	TITLE	UNIT	AA/AS GE
Maj	CISN 300	Network Systems Administration	3	
Maj	CISN 302 <sup>+</sup>	Intermediate Network Systems Administration	3	
GE	INDIS 313 <sup>*</sup>	Freshman Seminar	3	IIIB
GE	MATH 373 <sup>**</sup>	Trigonometry for Calculus	4	IIB
GE		Humanities	3	I

**+ Prerequisite for CISN 302:** CISN 300 with a grade of "C" or better

**\*INDIS 313 - Freshman Seminar is specifically designed for First Time in College students. If you're not a First Time in College student, please select a GE course from SCC General Education Area IIb, such as HCD 310-College Success.**

**\*\*If you don't place directly in MATH 373 (check your e-Services account), you will need to take MATHS 71/MATH 373 combo course.**

### Semester 2

15-16 Units

CAT.	COURSE	TITLE	UNIT	AA/AS GE
Maj	CISN 306 <sup>+</sup>	Advanced Network Systems Administration	3	
Maj	CISN 307 <sup>+</sup>	Windows Active Directory Services	3	
Maj	CISN 308 <sup>+</sup>	Internetworking with TCP/IP	3	
GE	ENGWR 300 <sup>*</sup> / 488 <sup>H</sup> / ESLW 340	College Composition	3-4	IIA
GE		American Institutions	3	VA

**+ Prerequisite for CISN 306, 307, 308:** CISN 300 with a grade of "C" or better

**\*If you don't place directly in ENGWR 300 (check your e-Services account), you will need to take ENGWR 80/ENGWR 300 combo course.**

### Legend

- (H) - Honors
- Elec - Elective
- GE - General Education
- Maj - Required Core
- ME - Major Elective

### Disclaimer

Every effort has been made to ensure that what is listed in the SCC Program Paths are accurate. The courses, the course sequencing, and the programs are subject to change without notice by the administration of the Los Rios Community College District and Sacramento City College at the discretion of the district and Sacramento City College. Further, Sacramento City College reserves the right to amend any course or program.

**PLEASE SEE AN SCC COUNSELOR.**

### AA/AS Requirements

#### AA/AS Requirements

**Associate Degrees require the following:**

1. Completion of a minimum of 60 degree-applicable units with an overall grade point average (GPA) of 2.0 ("C" average). A minimum of 12 units must be completed at Sacramento City College.
2. Completion of each required course with a grade of "C" or better for a major offered at Sacramento City College.
3. Completion of Sacramento City College's general education requirements – Area I; Area II(a) and II(b); Area III(a) and III(b), or Area III(c); Area IV; Area V; and Area VI – with an overall 2.0 GPA.
4. Completion of all three competency requirements (reading, writing, and mathematics).
5. Students with Advanced Placement (AP) and International Baccalaureate Credit (IB) test scores should notify

## Second Year

### Semester 3

14.5 Units

CAT.	COURSE	TITLE	UNIT	AA/AS GE
Maj	CISN 340	CISCO Networking Academy (CCNA)tm: Introduction to Networks	3.5	
ME	CISS 310 / 315	Network Security Fundamentals	3	
ME		*Major Elective List	3	
GE		Physical Education	1	IIIA
GE		Social & Behavioral Sciences	3	VB
Elec		**Elective	1	

**\*See Major Elective list in semester 4 - Choose one course this semester.**

\*\*Electives may include any courses numbered 100-499.

### Semester 4

14.5 Units

CAT.	COURSE	TITLE	UNIT	AA/AS GE
ME		*Major Elective List	2	
Maj	CISN 341 +	CISCO Networking Academy (CCNA)tm:Switching, Routing, and Wireless Essentials	3.5	
GE		Ethnic/Multicultural Studies	3	VI
GE		Natural Sciences	3	IV
Elec		**Elective	3	

**\*See Major Elective list below - Choose one course not already completed to equal 5 units total.**

**+ Prerequisite for CISN 341:** CISN 340 with a grade of "C" or better

\*\*Electives may include any courses numbered 100-499.

**\*Major Elective List:** A minimum of 5 units from the following

CISC 310 Introduction to Computer Science (3)

CISC 320 Operating Systems (1)

CISC 323 Linux Operating System (1)

CISC 324 Intermediate Linux Operating System (1)

CISC 351 Introduction to Local Area Networks (1)

CISC 355 Introduction to Data Communications (1.5)

CISC 360 Information & Communication Technology Essentials (A+) (4)

their Counselor to learn more about how test scores may be used for credit.

**Exception:** Students who possess a bachelor's (BA/BS) or higher degree from a college or university accredited through a regional accrediting agency recognized by the Council for Higher Education Accreditation (CHEA) are deemed to have satisfied both the general education and graduation competency requirements for an AA/AS degree. Degrees from accredited institutions outside of the US will be evaluated on a case-by-case basis.

### Placement Information

Support courses required for English and Math per placement. **Check your e-Services account under "Academic Records" to determine your placements.**

### Department Notes

- Students are encouraged to contact the CIS faculty for course sequence adjustments.
- Department contact: Abdelaziz Kaina

KainaA@scc.losrios.edu

### Important Links

[SCC General Counseling](#)  
[Computer Science - Network Administration](#)  
[Business & Industry Meta Majors](#)

CISN 303 Network Administration - Linux Server (3)

CISN 304 Networking Technologies (3)

CISN 315 Advanced Network Administration - Linux Server (3)

CISN 316 Virtualization Concepts & Technologies (3.5)

CISN 320 Designing Windows Directory Services (3)

CISN 327 Cloud Infrastructure & Services (3.5)

CISN 328 Cloud Solution Architect (3)

CISN 329 Cloud SysOps & Operations Administration (3)

CISN 342 Networking Academy (CCNA) tm: Enterprise Networking, Security, and Automation (3.5)

CISN 346 Network Design & Projects (3.5)

CISN 374 Messaging Server Administration (3)

CISN 378 Database Administration for Microsoft SQL Server (3)

CISS 300 Introduction to Information Systems Security (1)

CISS 310 Network Security Fundamentals (3)

CISS 315 Ethical Hacking (3)

CISS 316 Cisco Networking Academy tm: CCNA Cybersecurity Operations (3)

CISS 321 Scripting for Cyber Security (3)

CISS 327 Cisco Networking Academy tm: CCNA Security: Implementing Internet Security & Firewalls (3.5)

CISS 330 Implementing Internet Security & Firewalls (3)

CISS 350 Disaster Recovery (3)

CISS 360 Computer Forensics & Investigation (3)