



Network Design Certificate

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: 2026-27

Total Units: 30

First Year

Semester 1

11 Units

CAT.	COURSE	TITLE	UNIT
Maj	CISN 340	CISCO Networking Academy (CCNA)tm: Introduction to Networks	3.5
Maj	CISN 341 +	CISCO Networking Academy (CCNA)tm:Switching, Routing, and Wireless Essentials	3.5
ME	CISC 320 / 323	Operating Systems	1
ME		*Major Elective	3

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

CISN 340 - First-8 Weeks

CISN 341 - Second-8 Weeks

*Major Elective - A minimum of 6 units from the following (select one course this semester): CISN 300, 303[^], 304, 316⁺, 327⁺, 328[^], 329[^], CISS 316[^], 321[^], 327[^].

+Prerequisite for CISN 316 & 327: CISN 300 or 340 with a grade of "C" or better

+Prerequisite for CISN 328: CISN 327 with a grade of "C" or better

+Prerequisite for CISN 329: CISN 328 with a grade of "C" or better

+Prerequisite for CISS 321: CISN 340, CISS 310, or CISS 315 with a grade of "C" or better

+Prerequisite for CISS 327: CISN 340 and 341 with grades of "C" or better

[^]CISN 303 is typically only offered during the spring semester.

[^]CISN 328 is typically only offered during the spring semester.

[^]CISN 329 is typically only offered during the fall semester.

[^]CISS 316 is typically only offered during the fall and summer semesters.

[^]CISS 321 is typically only offered during the summer semester.

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.

Certificate of Achievement Requirements

Certificates of Achievement require a grade of "C" or better in each course.

Department Notes

- Students are encouraged to contact the CIS faculty for course sequence adjustments.

^CISS 327 is typically only offered during the spring semester.

Semester 2

13 Units

CAT.	COURSE	TITLE	UNIT
Maj	CISN 342 ⁺	CISCO Networking Academy (CCNA)tm: Enterprise Networking, Security, and Automation	3.5
Maj	CISN 346 ⁺	Network Design and Projects	3.5
Maj	CISN 308 ⁺⁺	Internetworking with TCP/IP	3
ME		**Major Elective	3

+Prerequisite for CISN 342 & 346: CISN 341 with a grade of "C" or better

+Prerequisite for CISN 308: CISN 300 with a grade of "C" or better

*CISN 308 is typically only offered during the spring semester.

**Major Elective - A minimum of 6 units from the following (select one course this semester not already completed in a previous semester): CISN 300, 303[^], 304, 316⁺, 327⁺, 328[^], 329[^], CISS 316[^], 321[^], 327[^].

+Prerequisite for CISN 316 & 327: CISN 300 or 340 with a grade of "C" or better

+Prerequisite for CISN 328: CISN 327 with a grade of "C" or better

+Prerequisite for CISN 329: CISN 328 with a grade of "C" or better

+Prerequisite for CISS 321: CISN 340, CISS 310, or CISS 315 with a grade of "C" or better

+Prerequisite for CISS 327: CISN 340 and 341 with grades of "C" or better

^CISN 303 is typically only offered during the spring semester.

^CISN 328 is typically only offered during the spring semester.

^CISN 329 is typically only offered during the fall semester.

^CISS 316 is typically only offered during the fall and summer semesters.

^CISS 321 is typically only offered during the summer semester.

^CISS 327 is typically only offered during the spring semester.

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Important Links

- [SCC General Counseling](#)
- [Computer Information Science](#)
- [Business & Industry Meta Major](#)

Second Year

Semester 3

6 Units

CAT.	COURSE	TITLE	UNIT
Maj	CISN 336 ⁺ *	Wireless Technologies	3
Maj	CISS 310	Network Security Fundamentals	3

+Prerequisite for CISN 336: CISN 341 with a grade of "C" or better

*CISN 336 is typically only offered during the fall semester.

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