



Network Design 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

14-15 Units

| CAT. | COURSE | TITLE | UNIT | AA/AS GE |
|------|---|---|------|-------------|
| 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 | |
| GE | INDIS 313 [*] | Freshman Seminar | 3 | IIIB |
| GE | ENGWR 300 ^{**} / 488 ^H / ESLW 340 | College Composition | 3-4 | IIA |
| GE | | Physical Education | 1 | IIIA |

+ Prerequisite for CISN 341: CISN 340 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 ENGWR 300 (check your e-Services account), you will need to take ENGWR 80/ENGWR 300 combo course.**

Semester 2

15 Units

| CAT. | COURSE | TITLE | UNIT | AA/AS GE |
|------|---|--|------|-------------|
| Maj | CISS 310 | Network Security Fundamentals | 3 | |
| Maj | CISN 336 ⁺ | Wireless Technologies | 3 | |
| ME | CISC 320 / 323 | Operating Systems | 1 | |
| ME | | *Major Elective List | 3 | |
| GE | STAT 300 ^{**} / 480 ^H | Introduction to Probability and Statistics | 4 | IIB |
| Elec | | ***Elective | 1 | |

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

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

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).

Students with Advanced Placement (AP) and International Baccalaureate Credit (IB) test scores should notify their Counselor to learn more about how test scores may be used for credit.

*Major Elective List - A minimum of 6 units from the following - Choose one course this semester: CISCN 300, CISCN 303, CISCN 304, CISCN 316, CISCN 327, CISCN 328, CISCN 329, CISS 316, CISS 321, CISS 327

**If you don't place directly in STAT 300 (check your e-Services account), you will need to take STAT 10/STAT 300 combo course.

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

Second Year

Semester 3

15.5 Units

| CAT. | COURSE | TITLE | UNIT | AA/AS GE |
|------|------------------------|--|------|-------------|
| Maj | CISCN 308 ⁺ | Internetworking with TCP/IP | 3 | |
| Maj | CISCN 342 ⁺ | CISCO Networking Academy (CCNA)tm: Enterprise Networking, Security, and Automation | 3.5 | |
| ME | | *Major Elective List | 3 | |
| GE | | Humanities | 3 | I |
| Elec | | **Elective | 3 | |

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

+ Prerequisite for CISCN 342: CISCN 341 with a grade of "C" or better

*Major Elective A minimum of 6 units from the following - Choose one course this semester not already completed in a previous semester: CISCN 300, CISCN 303, CISCN 304, CISCN 316, CISCN 327, CISCN 328, CISCN 329, CISS 316, CISS 321, CISS 327

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

Semester 4

15.5 Units

| CAT. | COURSE | TITLE | UNIT | AA/AS GE |
|------|------------------------|------------------------------|------|-------------|
| Maj | CISCN 346 ⁺ | Network Design and Projects | 3.5 | |
| GE | | Social & Behavioral Sciences | 3 | VB |
| GE | | Ethnic/Multicultural Studies | 3 | VI |
| GE | | Natural Sciences | 3 | IV |
| GE | | American Institutions | 3 | VA |

+ Prerequisite for CISCN 346: CISCN 341 with a grade of "C" or better

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 Design](#)
[Business & Industry Meta Majors](#)