



# Computer Science 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:** 2023-24

**Total Units:** 60-61

## First Year

### Semester 1

15 Units

CAT.	COURSE	TITLE	UNIT	AA/AS GE
Maj	CISC 310	Introduction to Computer Information Science	3	
Maj	CISP 301	Algorithm Design and Implementation	4	
GE	INDIS 313 *	Freshman Seminar	3	IIIB
GE	MATH 373 **	Trigonometry for Calculus	4	IIB
GE		Physical Education	1	IIIA

**\*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 IIIB, 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	CISP 350 +	Database Programming	3	
Maj	CISP 360 +	Introduction to Structured Programming	4	
Maj	CISC 323	Linux Operating System	1	
Maj	CISC 324 +	Intermediate Linux Operating System	1	
GE	ENGWR 300 * / 488 <sup>H</sup> / ESLW 340	College Composition	3-4	IIA
GE		Humanities	3	I

**\*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.**

**+ Prerequisite for CISP 350:** CISA 323 or CISP 301 with a grade of "C" or better

**+ Prerequisite for CISP 360:** CISP 301 with a grade of "C" or better

**+ Prerequisite for CISC 324:** CISC 323 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.**

## Second Year

### Semester 3

14 Units

CAT.	COURSE	TITLE	UNIT	AA/AS GE
Maj	CISP 310 <sup>+</sup>	Computer Architecture and Organization	4	
ME	CISP 400 <sup>+</sup> / 401 <sup>+</sup>	Major Elective	4	
ME		*Major Elective (List A)	3	
GE		Natural Sciences	3	IV

**\*See List in Semester 4.**

**+ Prerequisite for CISP 310:** CISP 301 and 360 with grades of "C" or better

**+ Prerequisite for CISP 400:** CISP 360 with a grade of "C" or better

**+ Prerequisite for CISP 401:** CISP 360 with a grade of "C" or better

### Semester 4

16 Units

CAT.	COURSE	TITLE	UNIT	AA/AS GE
Maj	CISP 430 <sup>+</sup>	Data Structures	4	
ME	CISP 440 <sup>+</sup> / 457 <sup>+</sup>	Major Elective	3	
ME		*Major Elective (List A)	3	
GE		Social & Behavioral Sciences	3	VB
GE	HIST 310 / 311 / 314 / 320 / 321 / 327 / 483 <sup>H</sup> / 484 <sup>H</sup> / 485 <sup>H</sup> / 486 <sup>H</sup> / 487 <sup>H</sup>	American Institutions/Ethnic-Multicultural Studies	3	VI/VA

**+ Prerequisite for CISP 430:** CISP 400 or 401 with a grade of "C" or better

**+ Prerequisite for CISP 440:** CISP 400 or 401 with a grade of "C" or better

**+ Prerequisite for CISP 457:** CISA 323 and CISC 310 with grades of "C" or better; and any one of the following: CISP 320, CISP 360, CISP 370, CISP 400, or CISP 401 with grade of "C" or better

**List A** (A minimum of 6 units from the following:)

CISC 351 Introduction to Local Area Networks

CISC 355 Introduction to Data Communications

CISN 303 Network Administration - Linux Server

CISP 357 Introduction to Big Data

CISP 358 Data Analysis

CISP 359 Big Data Analytics

CISP 362 Programming for Mobile Devices

CISP 401 Object Oriented Programming with Java

CISP 457 Introduction to Systems Analysis & Design

**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: Meili Xu

XuM@scc.losrios.edu

### Important Links

[SCC General Counseling](#)

[Computer Information Science - Computer Science](#)

[nce](#)

[Business & Industry Meta Majors](#)

CISS 300 Introduction to Information Systems Security

CISS 310 Network Security Fundamentals

CISW 327 Introduction to Web Development coding HTML & CSS

CISW 400 Client-side Web Scripting

CISW 410 Middleware Web Scripting

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