



# Data 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:** 2024-25

**Total Units:** 60-61

## First Year

### Semester 1

14-15 Units

CAT.	COURSE	TITLE	UNIT	AA/AS GE
Maj	CISP 301	Algorithm Design and Implementation	4	
Maj	CISD 357 / CISP 357	Introduction to Data Science	4	
GE	INDIS 313*	Freshman Seminar	3	IIIB
GE	ENGWR 300** / 488 <sup>H</sup> / ESLW 340	College Composition	3-4	IIA

**\*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

14 Units

CAT.	COURSE	TITLE	UNIT	AA/AS GE
Maj	CISP 350*+	Database Programming	3	
Maj	CISD 358* / CISP 358*	Data Analysis	4	
GE	STAT 300** / 480**	Introduction to Probability and Statistics	4	IIB
Elec		***Elective	3	

**\*Students may complete CISP 350 OR CISA 323 (first 8-week term) and 324 (second 8-week term)**

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

**+ Prerequisite for CISD 358/CISP 358:** CISD 357 or CISP 357 with a grade of "C" or better

**\*\*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.**

### 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.

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

## Second Year

### Semester 3

16 Units

CAT.	COURSE	TITLE	UNIT	AA/AS GE
Maj	CISD 359 <sup>+</sup> / CISP 359 <sup>+</sup>	Data Modeling and Machine Learning	4	
GE		Humanities	3	I
GE		Natural Sciences	3	IV
GE		American Institutions	3	VA
Elec		*Elective	3	

**+ Prerequisite for CISD 359/CISP 359:** CISD 357 or CISP 357 with a grade of "C" or better

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

### Semester 4

16 Units

CAT.	COURSE	TITLE	UNIT	AA/AS GE
GE		Social & Behavioral Sciences	3	VB
GE		Ethnic/Multicultural Studies	3	VI
GE		Physical Education	1	IIIA
Elec		*Elective	3	
Elec		*Elective	3	
Elec		*Elective	3	

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

*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 - Data Science](#)  
[Business & Industry Meta Majors](#)