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: 60-64

# **First Year**

# Semester 1

ΠΠ

CAT.	COURSE	TITLE	UNIT	AA/AS GE
Мај	CHEM 400 +	General Chemistry I	5	IV
Мај	ENGR 300	Introduction to Engineering	1	
Мај	MATH 400+	Calculus I	5	IIB
GE	INDIS 313**	Freshman Seminar	3	IIIB

**+Prerequisite for CHEM 400:** CHEM 300 with a grade of "C" or better or through placement completed within one year prior to enrollment in CHEM 400 or placement through the assessment process (ACS California Chemistry Diagnostic Exam) completed within one year prior to enrollment in CHEM 400 AND Intermediate Algebra, High School Integrated Math 3, or equivalent with a "C" or better

**+Prerequisite for MATH 400:** MATH 372 & MATH 373 with grades 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 IIIb, such as HCD 310-College Success.

# Semester 2

#### 16-18 Units

CAT.	COURSE	TITLE	UNIT	AA/AS GE
Мај	MATH 401 <sup>+</sup>	Calculus II	5	
Мај	PHYS 410 +^	Mechanics of Solids and Fluids	5	
GE	ENGWR 300 <sup>*</sup> / 488 / ESLW 340	College Composition	3-4	IIA
ME	ENGR 405 <sup>+</sup> / CISP 360 <sup>+</sup>	Engineering Problem Solving	3-4	

+Prerequisite for MATH 401 & PHYS 410: MATH 400 with a grade of "C" or better

^Corequisite for PHYS 410: Concurrent enrollment in MATH 401

## Legend

14 Units

- (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 <u>Sacramento City Colleg</u> <u>e's general education requirements</u> – 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 <u>competency re</u> <u>quirements</u> (reading, writing, and mathematics).

\*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 ENGR 405:** MATH 401 with a grade of "C" or better or concurrent enrollment

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

# Second Year

# Semester 3

CAT.	COURSE	TITLE	UNIT	AA/AS GE
Maj	MATH 402 <sup>+</sup>	Calculus III	5	
Мај	PHYS 420 <sup>+</sup>	Electricity and Magnetism	5	
GE		Humanities	3	I
GE	HIST 310 / 311 / 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	VA/VI
GE		Physical Education	1	IIIA

+Prerequisite for MATH 402: MATH 401 with a grade of "C" or better

**+Prerequisite for PHYS 420:** MATH 401 & PHYS 410 with grades of "C" or better

## Semester 4

### 13-15 Units

17 Units

CAT.	COURSE	TITLE	UNIT	AA/AS GE
Мај	ENGR 400 <sup>+</sup>	Introduction to Electrical Circuits and Devices	3	
Мај	MATH 420 <sup>+</sup>	Differential Equations	4	
ME	MATH 410 <sup>+</sup> / PHYS 430 <sup>+</sup> / CISP 400 <sup>+</sup> / 430 <sup>+</sup> / 440 <sup>+</sup> / ENGR 412 <sup>+</sup>	Introduction to Linear Algebra	3-5	
GE		Social & Behavioral Sciences	3	VB

**+Prerequisite for ENGR 400:** MATH 420 and PHYS 420 with grades of "C" or better; students may be enrolled in MATH 420 concurrently

+Prerequisite for MATH 420: MATH 401 with a grade of "C" or better

\*Major Elective - One course from this group is required to earn an AS degree. For students transferring in Electrical/Computer Engineering to a four-year institution, all courses from this group may be required by the

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.

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.

## **ADT Requirements**

Transfer degrees require the following:

- 1. Complete all required courses for a major with a grade of "C" or better.
- 2. Complete 60 CSU-transferable units. At least 12 of the 60 units must be earned at Sacramento City College.
- 3. Complete one of the following general education (GE) patterns. Meet with your SCC Counselor to discuss the appropriate GE pattern for your individual transfer/graduation goals:
- <u>CSU General Education Breadth Requireme</u>
  <u>nts</u>
- Intersegmental General Education Transfer <u>Curriculum (IGETC) – CSU option</u>

### Important Links

SCC General Counseling Engineering - Electrical/Computer Engineering Science, Math, & Engineering Meta Majors desired transfer institution; please see a counselor to determine which of these courses are required for successful transfer.

+Prerequisite for MATH 410: MATH 401 with a grade of "C" or better

**+Prerequisite for PHYS 430:** MATH 401 & PHYS 410 with grades of "C" or better

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

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

**+Prerequisite for CISP 440:** CISP 400 or 401 & MATH 372 with a grade of "C" or better

**+Prerequisite for ENGR 412:** CHEM 400 & PHYS 410 with grades of "C" or better

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