# Engineering, General A.S. Degree - Cal-GETC GE

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:** 78-82

## First Year

### Semester 1

**17-18 Units**

| CAT. | COURSE | TITLE | UNIT | GE AREA |
|---|---|---|---|---|
| **Maj** | CHEM 400 + | General Chemistry I | 5 | Cal-GETC Area 5A/Cal-GETC Area 5C |
| **Maj** | ENGR 300 | Introduction to Engineering | 1 | |
| **Maj** | MATH 400 +* | Calculus I | 5 | Cal-GETC Area 2 |
| **Maj** | ENGR 312 + | Engineering Graphics | 3 | |
| **GE** | ENGL C1000 ** / 488 H+ / ESLW 340 + | Academic Reading & Writing | 3-4 | Cal-GETC Area 1A |

**+Prerequisite for CHEM 400:** CHEM 300 with a grade of "C" or better 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 or equivalent (Integrated Math 3) with a grade of "C-" or better

**+Prerequisite for MATH 400:** MATH 372 & MATH 373; or MATH 375 with a grade of "C" or better; or through the placement process (check your eServices account)

*Students who do not place directly into MATH 400 (check your eServices account) must complete the prerequisite or take MATHS 60/MATH 400 combo course. Options depend on STEM placement and prior math preparation. Meet with a counselor for guidance.

**+Prerequisite for ENGR 312:** MATH 373 with a grade of "C" or better

**If you don't place directly in ENGL C1000 (check your eServices account), you will need to take ENGL 80/ENGL C1000 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

**This Associate Degree requires 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 within the Los**

**+Prerequisite for ENGL 488:** ESL 325 with a grade of "C" or better, or placement through the assessment process

**+Prerequisite for ESLW 340:** ESL 325 with a grade of "C" or better; or, for students not previously enrolled in ESL writing courses within the Los Rios district, placement through the Los Rios assessment process

## Semester 2

**16-17 Units**

| CAT. | COURSE | TITLE | UNIT | GE AREA |
|---|---|---|---|---|
| **ME** | ENGR 405+ / CISP 360+ | Major Elective | 3-4 | |
| **Maj** | MATH 401+ | Calculus II | 5 | |
| **Maj** | PHYS 410+^ | Mechanics of Solids and Fluids | 5 | |
| **GE** | | Critical Thinking and Composition | 3 | Cal-GETC Area 1B |

**+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

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

**^Corequisite for PHYS 410:** Concurrent enrollment in MATH 401

## Summer Term

**6 Units**

| CAT. | COURSE | TITLE | UNIT | GE AREA |
|---|---|---|---|---|
| **GE** | | Arts | 3 | Cal-GETC Area 3A |
| **GE** | | Oral Communication | 3 | Cal-GETC Area 1C |

# Second Year

## Semester 3

**17 Units**

| CAT. | COURSE | TITLE | UNIT | GE AREA |
|---|---|---|---|---|
| **Maj** | MATH 402+ | Calculus III | 5 | |
| **Maj** | PHYS 420+ | Electricity and Magnetism | 5 | |
| **Maj** | ENGR 412+ | Properties of Materials | 4 | |
| **GE** | | Ethnic Studies | 3 | Cal-GETC Area 6 |

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

**Rios Community College District.**

2. **Completion of each required course with a grade of "C" or better for a major offered at Sacramento City College.**
3. **Completion of the Californi a General Education Transf er Curriculum (Cal-GETC). Areas 1 through 6 must be completed with a grade of "C" or better.**

**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.**

## Placement Information

***Check your eServices account under "Academic Records" to determine your Math and English 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 within the Los Rios Community College District.**
3. **Complete the Cal-GET C transfer general education pattern.**

## Important Links

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

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

## Semester 4

**16-18 Units**

| CAT. | COURSE | TITLE | UNIT | GE AREA |
|---|---|---|---|---|
| **ME** | CHEM 401+ / ENGR 400+^ / MATH 410+ / PHYS 430+ | *Major Elective | 3-5 | |
| **Maj** | MATH 420+ | Differential Equations | 4 | |
| **Maj** | ENGR 422+ | Engineering Mechanics, Statics | 3 | |
| **GE** | | Social & Behavioral Sciences | 3 | Cal-GETC Area 4 |
| **GE** | | Humanities | 3 | Cal-GETC Area 3B |

*Major Elective - One course from this group is required to earn an AS degree. For students transferring in Engineering to a four-year institution, all courses from this group may be required by the desired transfer institution; please see a counselor to determine which of these courses are required for successful transfer.

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

**+Prerequisite for ENGR 400:** PHYS 420 with a grade of "C" or better

**^Corequisite for ENGR 400:** Concurrent enrollment in MATH 420

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

**+Prerequisite for ENGR 422:** MATH 401 & PHYS 410 with grades of "C" or better

## Summer Term

**6 Units**

| CAT. | COURSE | TITLE | UNIT | GE AREA |
|---|---|---|---|---|
| **GE** | | *Social & Behavioral Sciences | 3 | Cal-GETC Area 4 |
| **GE** | | Biological Science | 3 | Cal-GETC Area 5B |

- SCC General Counseling
- Engineering, General
- Science, Math, & Engineering Meta Majors

*Cal-GETC Area 4 requires 2 courses from different disciplines. Select a course from Cal-GETC Area 4 from a different discipline than the previously completed Cal-GETC Area 4 course.

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