

This program roadmap represents one possible pathway to complete the program. **Please see a counselor** to create an education plan that is customized to meet your needs. This roadmap is not a guarantee of course availability or financial aid applicability. For counseling appointments call 916.608.6510.

FIRST YEAR

Semester 1:

16 units

| CAT. | COURSE | TITLE | | GE AREA |
|------|-----------|----------------------------------|---|---------|
| Req | MATH 400* | Calculus I | 5 | 2A |
| Req | CHEM 400* | General Chemistry I | 5 | 5A/C |
| Req | CISP 300 | Algorithm Design/Problem Solving | 3 | |
| Req | ENGWR 300 | College Composition | 3 | 1A |

Semester 2:

17 units

| | | | | |
|-----|-----------------------------|---------------------------------------------------------------------------------|---|----|
| Req | MATH 401* | Calculus II | 5 | |
| Req | CHEM 401* | General Chemistry II | 5 | |
| Req | PHYS 411* | Mechanics of Solids and Fluids | 4 | |
| Req | ENGWR 301* or ENGWR 302* | College Composition & Literature or Advanced Composition & Critical Thinking | 3 | 1B |

Semester 3:

7 units

| | | | | |
|-----|-------------------------|-------------------------------------------------------------------|---|----|
| Req | CISP 360* | Introduction to Structured Programming | 4 | |
| Req | COMM 301 or COMM 321 | Introduction to Public Speaking or Interpersonal Communication | 3 | 1C |

* This course has a prerequisite or corequisite course.

Notes:

- See General Education requirements for: [UC](#)
- See [ASSIST.ORG](#) for the transfer requirements for the institution to which you plan to transfer.
- A transferable elective is defined as any class with a course number between 300 and 499. Electives may vary for the [CSU](#) and [UC](#) systems.
- U.S. History/American Ideals is a graduation requirement for all CSUs.
- Foreign Language may be required for CSU Sacramento IF student did not complete 3 years in high school. This requirement may vary at different colleges.
- Some English and Math courses have support courses (co-requisites). See your assessment results for more details.

EXPLANATION OF CATEGORIES

| | | |
|------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Req | Required Core | A course that is required for this degree |
| GE | General Education | A course that fulfills a specific general education requirement for this degree, which can be replaced with another course that meets the same requirement |
| Elec | Elective | A degree-applicable course that is part of a degree roadmap to ensure that there is a total of at least 60 units, which is a requirement for an associate degree |



SECOND YEAR

Semester 3:

15 units

| CAT. | COURSE | TITLE | GE AREA |
|------|-----------|--------------------------------|---------|
| Req | MATH 402* | Calculus III | 5 |
| Req | MATH 410* | Introduction to Linear Algebra | 3 |
| Req | PHYS 421* | Electricity & Magnetism | 4 |
| Req | ENGR 420* | Statics | 3 |

Semester 4:

17 units

| | | | |
|-----|-----------|---------------------------------------------|------------|
| Req | MATH 420* | Differential Equations | 4 |
| Req | PHYS 431* | Heat, Waves, Light & Modern Physics | 4 |
| Req | ENGR 400* | Introduction to Electrical Circuits/Devices | 3 |
| Req | ENGR 312 | Engineering Graphics | 3 |
| GE | | Arts/Humanities or Social Science | 3 3/4 |

*This course has a prerequisite or corequisite course.

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