



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.

**Catalog:** 2026-27

**GE Pattern:** local AA/AS

**Total Units:** 60

**Start Term:** Fall

## First Year

### Semester 1 (Fall)

16 Units

| CAT. | COURSE   | UNIT | PREREQUISITES | GE AREA |
|------|--|------|---------------|---------|
| Req  | <b>DESN 300</b><br>Introduction to Design Resources                                      | 3    |               |         |
| Req  | <b>DESN 301<sup>1</sup></b><br>Introduction to Computer Aided Drafting and Design (CADD) | 3    |               |         |
| RE   | <b>PHYS 310</b><br>Conceptual Physics  | 3    |               | L5      |
| GE   | <b>MATH 373</b><br>Trigonometry for Calculus   | 4    |               | L2      |
| GE   | <b>any Area L3 (Arts &amp; Humanities) course</b>  | 3    |               | L3      |

<sup>1</sup>Skills covered in DESGN 301 are often learned in high school drafting courses, as well as by other means. Contact the Design Technology department chair about earning credit by exam or challenging the DESGN 301 prerequisite.

### Semester 2 (Spring)

15 Units

| CAT. | COURSE   | UNIT | PREREQUISITES | GE AREA |
|------|--|------|---------------|---------|
| Req  | <b>DESN 302</b><br>Technical Documentation with CADD         | 3    | DESN 301      |         |
| Req  | <b>DESN 328</b><br>Engineering Modeling and Design           | 3    | DESN 301      |         |
| RE   | <b>CHEM 305</b><br>Introduction to Chemistry                 | 5    |               |         |
| GE   | <b>ENGL C1000</b><br>College Composition <b>or</b>           | 3    |               | L1A     |
|      | <b>ENGL C1000H<sup>H</sup></b><br>Honors College Composition | 3    |               |         |
| GE   | <b>any Area L7A (Physical Education) course</b>              | 1    |               | L7A     |

## CAREER PATH

### Career Options:

This degree prepares students for careers as engineering technicians, working as technical assistants to engineers.

Engineering technicians are needed in the fields of manufacturing, architecture, construction, materials testing, public utilities, and many other fields.

### Advising Notes:

- This degree can be completed using either the local AA/AS general education (GE) pattern or the Cal-GETC transfer GE pattern. See a counselor to determine which pattern is best for you based on your academic goals.
- Students can substitute ESLW 340 for ENGL C1000/C1000H (formerly known as ENGWR 300/480).
- **Elective Courses:** any elective courses numbered 100-499, or having a 4-digit number starting with C.

### Scheduling Notes:

- DESGN 310 and 351 are offered in the fall.
- DESGN 328, 331, 360, and 361 are offered in the spring.

## Second Year

### Semester 3 (Fall)

14 Units

| CAT. | COURSE   | UNIT | PREREQUISITES | GE AREA |
|------|--|------|---------------|---------|
| Req  | DESIGN 310<br>Graphic Analysis and Documentation             | 3    | DESIGN 301    |         |
| Req  | DESIGN 351<br>Surveying For Architectural Design             | 2    | (see below)   |         |
| GE   | any Area L1B (Oral Communication & Critical Thinking) course | 3    |               | L1B     |
| GE   | any Area L4 (Social & Behavioral Sciences) course            | 3    |               | L4      |
| GE   | any Area L6 (Ethnic Studies) course                          | 3    |               | L6      |

**DESIGN 351 prerequisite:** DESIGN 301, and DESIGN 325, DESIGN 328 or HORT 329

### Semester 4 (Spring)

15 Units

| CAT. | COURSE   | UNIT | PREREQUISITES | GE AREA |
|------|--|------|---------------|---------|
| Req  | DESIGN 331<br>Machine Design                             | 2    | (see below)   |         |
| RE   | DESIGN 360<br>Commercial Engineering Design and Drafting | 4    | (see below)   |         |
| Req  | DESIGN 361<br>Commercial MEP Design                      | 2    | (see below)   |         |
| GE   | DESIGN 498<br>Work Experience in Design Technology       | 2    |               | L7B     |
| Elec | any elective course                                      | 3    |               |         |
| Elec | any elective course                                      | 2    |               |         |

**DESIGN 331 prerequisite:** DESIGN 301, 302, 310, and 328

**DESIGN 360 prerequisite:** DESIGN 302, and DESIGN 300 or 320, and DESIGN 325 or 328

**DESIGN 361 prerequisite:** DESIGN 300, 301, 302, 310, and 328

<sup>H</sup> honors courses

- DESIGN 331 is offered during the 1<sup>st</sup> 8 weeks and DESIGN 361 is offered during the 2<sup>nd</sup> 8 weeks, so they can be taken in the same semester.

- This degree can be started in the spring as well. [See a counselor](#) or to adjust the course work.

#### Other Notes:

- This program is designed for students to directly enter the workforce. Students wishing to transfer to pursue a Bachelor's degree should meet with a counselor to select the appropriate courses, because colleges vary widely in terms of their required coursework. Students should also keep a portfolio of all of their design/ engineering technology projects to present for evaluation by college advisors.
- An internship (DESIGN 498) is highly recommended as it opens up potential employment opportunities. Students can earn between 0.5 – 4.0 units for related paid or unpaid work experience including volunteer and internship positions through DESIGN 498. This course also works toward satisfying GE Area L7B. See the [Work Experience website](#) for more information.

#### EXPLANATION OF CATEGORIES

|     |                     |  |
|-----|---------------------|--|
| Req | Required Core       | A course that is required for this program   |
| RE  | Restricted Elective | A course selected from a list of elective courses specified for this program in the course list in the catalog, which can be replaced with another course from the same list |

## EXPLANATION OF CATEGORIES

|             |                   |  |
|-------------|-------------------|--|
| <b>GE</b>   | General Education | A course that fulfills a specific general education requirement for a degree, which can be replaced with another course that meets the same requirement          |
| <b>Elec</b> | Degree 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 |

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