



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: 2025-26**GE Pattern:** local AA/AS**Total Units:** 61**Start Term:** Fall

First Year

Semester 1 (Fall)

15 Units

| CAT. | COURSE | UNIT | PREREQUISITES | GE AREA |
|------|--|--------|---------------|---------|
| Req | DESN 300 Introduction to Design Resources | 3 | | |
| Req | DESN 301¹ Introduction to Computer Aided Drafting and Design (CADD) | 3 | | |
| Req | DESN 320 Three Dimensional Graphics and Design | 3 | | |
| GE | ENGL C1000 Academic Reading and Writing or ENGL C1000H^H Academic Reading and Writing - Honors | 3 3 | | L1A |
| GE | any Area L3 (Arts & Humanities) course | 3 | | L3 |

¹Skills 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.

Semester 2 (Spring)

15 Units

| CAT. | COURSE | UNIT | PREREQUISITES | GE AREA |
|------|---|------|---------------|---------|
| Req | DESN 302 Technical Documentation with CADD | 3 | DESN 301 | |
| Req | DESN 325 Architectural Modeling and Design | 3 | DESN 301 | |
| Req | DESN 328 Engineering Modeling and Design | 3 | DESN 301 | |
| GE | MATH 300 Introduction to Mathematical Ideas | 3 | | L2 |
| GE | any Area L5 (Natural Sciences) course | 3 | | L5 |

Second Year

Semester 3 (Fall)

15 Units

| CAT. | COURSE | UNIT | PREREQUISITES | GE AREA |
|------|---|------|---------------|---------|
| Req | DESN 310 Graphic Analysis and Documentation | 3 | DESN 301 | |

CAREER PATH

Career Options:

Holders of a Design Technology degree are capable of working under a large number of job titles requiring the skills provided by this certificate, including

- CADD
- Computer Aided Drafting/Design
- Revit / BIM
- AutoCad, Inventor, Revit, Navisworks, Sketch-Up (software packages)
- Designer, Drafter, Detailer, Specialist (job descriptions)

[Link to local employment information](#)

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).

Scheduling Notes:

- DESGN 310, 340, 351, and 352 are offered in the fall.
- DESGN 325, 328, 331, 360, and 361 are offered in the spring.
- DESGN 351 is offered during the 1st 8 weeks and DESGN 352 is offered

| CAT. | COURSE | UNIT | PREREQUISITES | GE AREA |
|------|---|------|---------------|---------|
| Req | DESN 340 Architecture and Construction | 4 | (see below) | |
| Req | DESN 351 Surveying For Architectural Design | 2 | (see below) | |
| Req | DESN 352 Land Planning For Architectural Design | 2 | | |
| GE | any Area L7A (Physical Education) course | 1 | | L7A |
| GE | any Area L4 (Social & Behavioral Sciences) course | 3 | | L4 |

DESN 340 prerequisite: DESN 301, DESN 302, DESN 300 or 320, and DESN 325 or 328

DESN 351 prerequisite: DESN 301, and DESN 325, DESN 328 or HORT 329

Semester 4 (Spring)

16 Units

| CAT. | COURSE | UNIT | PREREQUISITES | GE AREA |
|------|---|------|---------------|---------|
| Req | DESN 331 Machine Design | 2 | (see below) | |
| Req | DESN 360 Commercial Engineering Design and Drafting | 4 | (see below) | |
| Req | DESN 361 Commercial MEP Design | 2 | (see below) | |
| GE | any Area LIB (Oral Communication & Critical Thinking) course | 3 | | LIB |
| GE | any Area L6 (Ethnic Studies) course | 3 | | L6 |
| GE | DESN 498 Work Experience in Design Technology | 2 | | L7B |

DESN 331 prerequisite: DESN 301, 302, 310, and 328

DESN 360 prerequisite: DESN 302, and DESN 300 or 320, and DESN 325 or 328

DESN 361 prerequisite: DESN 300, 301, 302, 310, and 328

^H honors courses

during the 2nd 8 weeks, so they can be taken in the same semester.

- DESN 331 is offered during the 1st 8 weeks and DESN 361 is offered during the 2nd 8 weeks, so they can be taken in the same semester.
- This degree can be started in the spring as well. See a counselor 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 or 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 (DESN 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 DESN 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 |
| GE | 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 |