



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:** 60**Start Term:** Fall

## First Year

### Semester 1 (Fall)

16 Units

CAT.	COURSE	UNIT	PREREQUISITES	GE AREA
Req	<b>DESN 300</b> Introduction to Design Resources	3		
Req	<b>DESN 301<sup>1</sup></b> Introduction to Computer Aided Drafting and Design (CADD)	3		
RE	<b>PHYS 310</b> Conceptual Physics	3		L5
GE	<b>MATH 373</b> Trigonometry for Calculus	4		L2
GE	any Area L3 (Arts & Humanities) course	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> Technical Documentation with CADD	3	DESN 301	
Req	<b>DESN 328</b> Engineering Modeling and Design	3	DESN 301	
RE	<b>CHEM 305</b> Introduction to Chemistry	5		
GE	<b>ENGL C1000</b> Academic Reading and Writing or	3		L1A
	<b>ENGL C1000H<sup>H</sup></b> Academic Reading and Writing - Honors	3		
GE	any Area L7A (Physical Education) course	1		L7A

## Second Year

### Semester 3 (Fall)

14 Units

CAT.	COURSE	UNIT	PREREQUISITES	GE AREA
Req	<b>DESN 310</b> Graphic Analysis and Documentation	3	DESN 301	

## 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-G ETC 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:

- DESN 310 and 351 are offered in the fall.
- DESN 328, 330, and 360 are offered in the spring.
- DESN 331 is offered during the 1<sup>st</sup> 8 weeks and DESGN 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 to adjust the course work.

CAT.	COURSE	UNIT	PREREQUISITES	GE AREA
Req	DESGN 351 Surveying For Architectural Design	2	(see below)	
GE	any Area LIB (Oral Communication & Critical Thinking) course	3		LIB
GE	any Area L4 (Social & Behavioral Sciences) course	3		L4
GE	any Area L6 (Ethnic Studies) course	3		L6

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

### Semester 4 (Spring)

15 Units

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

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

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

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

<sup>H</sup> honors courses

### 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 (DESGN 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 DESGN 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
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
Elec	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