



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: 2024-25**GE Pattern:** local AA/AS**Total Units:** 60**Start Term:** Fall

First Year

Semester 1 (Fall)

16 Units

CAT.	COURSE	TITLE	UNIT	GE AREA
Req	DESN 300	Introduction to Design Resources	3	
Req	DESN 301 ¹	Introduction to Computer Aided Drafting and Design (CADD)	3	
RE	PHYS 310	Conceptual Physics	3	IV
GE	MATH 373	Trigonometry for Calculus	4	IIb MC
GE		any Area I (Humanities) course	3	I

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 or challenging the DESGN 301 prerequisite.

Semester 2 (Spring)

15 Units

CAT.	COURSE	TITLE	UNIT	GE AREA
Req	DESN 302	Technical Documentation with CADD	3	
Req	DESN 328	Engineering Modeling and Design	3	
RE	CHEM 305	Introduction to Chemistry	5	
GE	ENGWR 300 / 480 ^H	College Composition	3	Ila WC
GE		any PE activity course	1	IIla

Second Year

Semester 3 (Fall)

14 Units

CAT.	COURSE	TITLE	UNIT	GE AREA
Req	DESN 310	Graphic Analysis and Documentation	3	
Req	DESN 351	Surveying For Architectural Design	2	
GE		any Area Va (American Institutions) course	3	Va
GE		any Area Vb (Social & Behavioral Sciences) course	3	Vb
GE		any Area VI (Ethnic/Multicultural Studies) course	3	VI

Semester 4 (Spring)

15 Units

CAT.	COURSE	TITLE	UNIT	GE AREA
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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:

- Students can substitute ESLW 340 for ENGWR 300/480.

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 1st 8 weeks and DESGN 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/

CAT.	COURSE	TITLE	UNIT	GE AREA
Req	DESGN 331	Machine Design	2	
RE	DESGN 360	Commercial Engineering Design and Drafting	4	
Req	DESGN 361	Commercial MEP Design	2	
RC	DESGN 498	Work Experience in Design Technology	2	IIIb
Elec		any elective course numbered 100-499	3	
Elec		any elective course numbered 100-499	2	

^H honors courses

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 IIIb. 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
RC	Recommended Course	A course that is not part of this program but is included in its roadmap
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

Graduation Requirement

A course that fulfills a specific graduation requirement which can be replaced by another course that meets the same graduation requirement.

MC = Math Competency

WC = Writing Competency