



# Engineering Technology Certificate

PART TIME

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

Total Units: 33

Start Term: Fall

## First Year

### Semester 1 (Fall)

9 Units

CAT.	COURSE	UNIT	PREREQUISITES
Req	<b>DESN 300</b> Introduction to Design Resources	3	
Req	<b>DESN 301</b> Introduction to Computer Aided Drafting and Design (CADD)	3	
RE	<b>PHYS 310</b> Conceptual Physics	3	

### Semester 2 (Spring)

11 Units

CAT.	COURSE	UNIT	PREREQUISITES
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	

## Second Year

### Semester 3 (Fall)

5 Units

CAT.	COURSE	UNIT	PREREQUISITES
Req	<b>DESN 310</b> Graphic Analysis and Documentation	3	DESN 301
Req	<b>DESN 351</b> Surveying For Architectural Design	2	(see below)

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

### Semester 4 (Spring)

8 Units

CAT.	COURSE	UNIT	PREREQUISITES
Req	<b>DESN 331</b> Machine Design	2	(see below)
RE	<b>DESN 360</b> Commercial Engineering Design and Drafting	4	(see below)
Req	<b>DESN 361</b> Commercial MEP Design	2	(see below)

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

## CAREER PATH

### Career Options:

This certificate 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.

### Scheduling Notes:

- DESGN 310 and 351 are offered in the fall.
- DESGN 325, 328, 331, 360, and 361 are offered in the spring.
- DESGN 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 certificate can be started in the spring as well. See a counselor to adjust the course work.

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

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

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

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