



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: 61

Start Term: Fall

First Year

Semester 1 (Fall) 15 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	
Req	DESN 320	Three Dimensional Graphics and Design	3	
GE	ENGWR 300 / 480 ^H	College Composition	3	Ila WC
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.

Semester 2 (Spring) 15 Units

CAT.	COURSE	TITLE	UNIT	GE AREA
Req	DESN 302	Technical Documentation with CADD	3	
Req	DESN 325	Architectural Modeling and Design	3	
Req	DESN 328	Engineering Modeling and Design	3	
GE	MATH 300	Introduction to Mathematical Ideas	3	Iib MC
GE		any Area IV (Natural Sciences) course	3	IV

Second Year

Semester 3 (Fall) 15 Units

CAT.	COURSE	TITLE	UNIT	GE AREA
Req	DESN 310	Graphic Analysis and Documentation	3	
Req	DESN 340	Architecture and Construction	4	
Req	DESN 351	Surveying For Architectural Design	2	
Req	DESN 352	Land Planning For Architectural Design	2	
GE		any Area IIIa (Physical Education) course	1	IIIa
GE		any Area Vb (Social & Behavioral Sciences) course	3	Vb

Semester 4 (Spring) 16 Units

CAT.	COURSE	TITLE	UNIT	GE AREA
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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:

- Students can substitute ESLW 340 for 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 during the 2nd 8 weeks, so they can be taken in the same semester.
- DESGN 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

CAT.	COURSE	TITLE	UNIT	GE AREA
Req	DESGN 331	Machine Design	2	
Req	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
GE		any Area Va (American Institutions) course	3	Va
GE		any Area VI (Ethnic/Multicultural Studies) course	3	VI

^H honors courses

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

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

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 (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.