



# Design Technology A.A. Degree

FULL 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: 2024-25

GE Pattern: local AA/AS

Total Units: 60

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 320	Three Dimensional Graphics and Design	3	
RC	DESN 301 <sup>1</sup>	Introduction to Computer Aided Drafting and Design (CADD)	3	
GE	ARTNM 322	Beginning Digital Art	3	I
GE	ENGWR 300 / 480 <sup>H</sup>	College Composition	3	Ila <b>WC</b>

<sup>1</sup> DESN 301 is not part of the degree, but it is a prerequisite to courses in the degree. Skills covered in DESN 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 DESN 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	
GE	ECON 302 / BUS 320	Principles of Macroeconomics	3	Vb
GE	MATH 300	Introduction to Mathematical Ideas	3	IIb <b>MC</b>
GE	GEOG 331	Exploring Maps and Geographic Technologies	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 325	Architectural Modeling and Design	3	
Req	DESN 340	Architecture and Construction	4	
RE	DESN 350	Surveying and Land Planning	5	

### Semester 4 (Spring)

15 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:

- DESN 310, 325, 340, and 350 are offered in the fall.
- DESN 328, 330, and 360 are offered in the spring.
- 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 counsel](#)

CAT.	COURSE	TITLE	UNIT	GE AREA
Req	DESGN 330	Engineering Systems and Design	5	
Req	DESGN 360	Commercial Engineering Design and Drafting	4	
GE	DESGN 298	Work Experience in Design Technology	2	IIIb
GE	HIST 330	Women in American History	3	Va, VI
GE		any PE activity course	1	IIIa

<sup>H</sup> honors courses

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 298) 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 298. 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
RC	Recommended Course	A course that is not part of this program but is included in its roadmap
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
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

### 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

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