

# DRAFTING

Turning ideas into designs; drafters create drawings and 3-D models using Computer Aided Drafting and Design (CAD) software. Major career fields for drafters include: architectural, mechanical, civil, piping, electrical and structural drafting.

The drafting program prepares students for the workforce or provides a foundation for Engineering and Design programs at the University level.

## Stackable Credentials

- Associate of Applied Science - Drafting
- Certificate - Industrial Drafting
- Certificate - 2D/3D Modeling
- Certificate - CAD Drafting
- Occupational Skills - Drafting-CAD

## Full-Time Schedule

- Occupational Skills Award - Drafting-CAD (Full-Time)
- Certificate - CAD Drafting (Full-Time)
- Certificate - 2D/3D Modeling (Full-Time)
- Certificate - Industrial Drafting (Full-Time)
- Associate of Applied Science - Drafting (Full-Time)

## Occupational Skills Award - Drafting-CAD

Course	Title	Semester Credit Hours
<b>Semester #1 (Fall)</b>		
DFTG 1305	Technical Drafting	3
DFTG 1409	Basic Computer-Aided Drafting	4
Semester Credit Hours		7
<b>Semester #2 (Spring)</b>		
DFTG 2419	Intermediate Computer-Aided Drafting	4
Semester Credit Hours		4
Total Semester Credit Hours		11

## Certificate - CAD Drafting

Level One Certificate

### Full-Time Student Schedule

The 18 credit hour CAD certificate provides introductory skills using CAD software. Students completing this certificate often begin work in the field or continue in the program to complete a higher level certificate.

Course	Title	Semester Credit Hours
<b>Semester #1</b>		
DFTG 1305	Technical Drafting	3
DFTG 1409	Basic Computer-Aided Drafting	4
Semester Credit Hours		7
<b>Semester #2</b>		
DFTG 2419	Intermediate Computer-Aided Drafting	4

POFT 1300	Career Exploration/Planning	3
DFTG Elective <sup>1</sup>		4
Semester Credit Hours		11
Total Semester Credit Hours		18

<sup>1</sup> A drafting elective is a 4 credit DFTG or ARCE course other than those courses specifically identified as requirements for the certificate. (See Drafting course descriptions.)

## Certificate - 2D/3D Modeling

Level One Certificate

### Full-Time Student Schedule

The 26 credit hour 2D/3D Modeling certificate provides introductory skills using CAD software for both two dimensional and three dimensional drafting and modeling. Students completing this certificate either join the workforce or continue toward a higher level certificate or the Associate Degree.

Course	Title	Semester Credit Hours
<b>Semester #1</b>		
DFTG 1305	Technical Drafting	3
DFTG 1409	Basic Computer-Aided Drafting	4
Semester Credit Hours		7
<b>Semester #2</b>		
DFTG 2419	Intermediate Computer-Aided Drafting	4
DFTG 2440	Solid Modeling & Design	4
Semester Credit Hours		8
<b>Semester #3</b>		
DFTG 2432	Advanced Computer-Aided Drafting	4
DFTG 2381 or POFT 1300	Cooperative Education - Drafting or Career Exploration/Planning	3
DFTG Elective <sup>1</sup>		4
Semester Credit Hours		11
Total Semester Credit Hours		26

<sup>1</sup> A drafting elective is a 4 credit DFTG or ARCE course other than those courses specifically identified as requirements for the certificate. (See Drafting course descriptions.)

## Certificate - Industrial Drafting

Level Two Certificate

### Full-Time Student Schedule

The 38 credit hour Industrial Drafting certificate provides students with an introduction to many different discipline specific drafting types including: Architectural, Civil, Electrical, Piping, and Structural. Students completing this certificate either join the workforce or continue toward a higher level certificate or the Associate Degree.

Course	Title	Semester Credit Hours
<b>Semester #1</b>		
DFTG 1305	Technical Drafting	3

DFTG 1409	Basic Computer-Aided Drafting	4
Semester Credit Hours		7
<b>Semester #2</b>		
DFTG 2430	Civil Drafting	4
DFTG 2428	Architectural Drafting - Commercial	4
DFTG 2419	Intermediate Computer-Aided Drafting	4
Semester Credit Hours		12
<b>Semester #3</b>		
ARCE 1452	Structural Drafting	4
DFTG 2407	Electrical Drafting	4
DFTG 2423	Pipe Drafting	4
Semester Credit Hours		12
<b>Semester #4</b>		
DFTG 2381 or POFT 1300	Cooperative Education - Drafting or Career Exploration/Planning	3
DFTG 2440	Solid Modeling & Design	4
Semester Credit Hours		7
Total Semester Credit Hours		38

## Associate of Applied Science Degree - Drafting

### Full-Time Student Schedule

The Associate of Applied Science degree in Drafting provides students with an intermediate level of computer aided drafting (CAD) skills. In addition, the students have completed studies in core curriculum courses: English, Humanities, and Mathematics.

Course	Title	Semester Credit Hours
<b>Semester #1</b>		
DFTG 1305	Technical Drafting	3
DFTG 1409	Basic Computer-Aided Drafting	4
PSYC 1300	Psychology for Success	3
Choose a Math Pathway		3
Transfer Pathway - Take one of the following math courses:		
MATH 1314	College Algebra	
MATH 1316	Plane Trigonometry	
Workforce Pathway:		
POFT 1321	Business Math	
Semester Credit Hours		13
<b>Semester #2</b>		
DFTG 2430	Civil Drafting	4
DFTG 2419	Intermediate Computer-Aided Drafting	4
BCIS 1305 or COSC 1301	Business Computer Applications or Introduction to Computing	3
Continue your chosen Math Pathway		3
Transfer Pathway - Choose a second math course for which you have the prerequisite:		
MATH 1314	College Algebra	
MATH 1316	Plane Trigonometry	
MATH 2312	Pre-Calculus Math	
Workforce Pathway:		

MATH 1332	Contemporary Math (Quantitative Reasoning)	
Semester Credit Hours		14
<b>Semester #3</b>		
DFTG 2407	Electrical Drafting	4
ARCE 1452	Structural Drafting	4
DFTG 2423	Pipe Drafting	4
DFTG 2432	Advanced Computer-Aided Drafting	4
Semester Credit Hours		16
<b>Semester #4</b>		
Language, Philosophy and Culture/Creative Arts	Select from Core Curriculum	3
DFTG 2428	Architectural Drafting - Commercial	4
BUSI 2304	Business Report Writing and Correspondence	3
DFTG 2381 or POFT 1300	Cooperative Education - Drafting or Career Exploration/Planning	3
DFTG 2440	Solid Modeling & Design	4
Semester Credit Hours		17
Total Semester Credit Hours		60

### Part-Time Schedules

- Certificate - CAD Drafting (Part-Time)
- Certificate - 2D/3D Modeling (Part-Time)
- Certificate - Industrial Drafting (Part-Time)
- Associate of Applied Science - Drafting (Part-Time)

### Certificate - CAD Drafting

Level One Certificate

#### Part-Time Student Schedule

The 18 credit hour CAD certificate provides introductory skills using CAD software. Students completing this certificate often begin work in the field or continue in the program to complete a higher level certificate.

Course	Title	Semester Credit Hours
<b>Semester #1 (Fall)</b>		
DFTG 1305	Technical Drafting	3
DFTG 1409	Basic Computer-Aided Drafting	4
Semester Credit Hours		7
<b>Semester #2 (Spring)</b>		
DFTG Elective <sup>1</sup>		4
DFTG 2419	Intermediate Computer-Aided Drafting	4
Semester Credit Hours		8
<b>Semester #3 (Fall)</b>		
POFT 1300	Career Exploration/Planning	3
Semester Credit Hours		3
Total Semester Credit Hours		18

<sup>1</sup> A drafting elective is a 4 credit DFTG or ARCE course other than those courses specifically identified as requirements for the certificate. (See Drafting course descriptions.)

## Certificate - 2D/3D Modeling

Level One Certificate

### Part-Time Student Schedule

The 26 credit hour 2D/3D Modeling certificate provides introductory skills using CAD software for both two dimensional and three dimensional drafting and modeling. Students completing this certificate either join the workforce or continue toward a higher level certificate or the Associate Degree.

Course	Title	Semester Credit Hours
<b>Semester #1 (Fall)</b>		
DFTG 1305	Technical Drafting	3
DFTG 1409	Basic Computer-Aided Drafting	4
Semester Credit Hours		7
<b>Semester #2 (Spring)</b>		
DFTG 2419	Intermediate Computer-Aided Drafting	4
DFTG 2440	Solid Modeling & Design	4
Semester Credit Hours		8
<b>Semester #4 (Fall)</b>		
DFTG 2432	Advanced Computer-Aided Drafting	4
DFTG Elective <sup>1</sup>		4
Semester Credit Hours		8
<b>Semester #5 (Spring)</b>		
DFTG 2381 or POFT 1300	Cooperative Education - Drafting or Career Exploration/Planning	3
Semester Credit Hours		3
Total Semester Credit Hours		26

<sup>1</sup> A drafting elective is a 4 credit DFTG or ARCE course other than those courses specifically identified as requirements for the certificate. (See Drafting course descriptions.)

## Certificate - Industrial Drafting

Level Two Certificate

### Part-Time Student Schedule

The 38 credit hour Industrial Drafting certificate provides students with an introduction to many different discipline specific drafting types including: Architectural, Civil, Electrical, Piping, and Structural. Students completing this certificate either join the workforce or continue toward a higher level certificate or the Associate Degree.

Course	Title	Semester Credit Hours
<b>Semester #1 (Fall)</b>		
DFTG 1305	Technical Drafting	3
DFTG 1409	Basic Computer-Aided Drafting	4
Semester Credit Hours		7

### Semester #2 (Spring)

DFTG 2430	Civil Drafting	4
DFTG 2419	Intermediate Computer-Aided Drafting	4
Semester Credit Hours		8

### Semester #4 (Fall)

DFTG 2407	Electrical Drafting	4
ARCE 1452	Structural Drafting	4
Semester Credit Hours		8

### Semester #5 (Spring)

DFTG 2428	Architectural Drafting - Commercial	4
DFTG 2440	Solid Modeling & Design	4
Semester Credit Hours		8

### Semester #6 (Fall)

DFTG 2423	Pipe Drafting	4
DFTG 2381 or POFT 1300	Cooperative Education - Drafting or Career Exploration/Planning	3
Semester Credit Hours		7
Total Semester Credit Hours		38

## Associate of Applied Science Degree - Drafting

### Part-Time Student Schedule

The Associate of Applied Science degree in Drafting provides students with an intermediate level of computer aided drafting (CAD) skills. In addition, the students have completed studies in core curriculum courses: English, Humanities, and Mathematics.

Course	Title	Semester Credit Hours
<b>Semester #1 (Fall)</b>		
DFTG 1305	Technical Drafting	3
DFTG 1409	Basic Computer-Aided Drafting	4
Semester Credit Hours		7
<b>Semester #2 (Spring)</b>		
DFTG 2419	Intermediate Computer-Aided Drafting	4
Choose a Math Pathway		3
Transfer Pathway - Take one of the following math courses:		
MATH 1314	College Algebra	
MATH 1316	Plane Trigonometry	
Workforce Pathway:		
POFT 1321	Business Math	
Semester Credit Hours		7
<b>Semester #3 (Summer)</b>		
PSYC 1300	Psychology for Success	3
Semester Credit Hours		3
<b>Semester #4 (Fall)</b>		
ARCE 1452	Structural Drafting	4
Continue your chosen Math Pathway		3
Transfer Pathway - Choose a second math course for which you have the prerequisite:		
MATH 1314	College Algebra	
MATH 1316	Plane Trigonometry	

MATH 2312	Pre-Calculus Math	
<b>Workforce Pathway:</b>		
MATH 1332	Contemporary Math (Quantitative Reasoning)	
Semester Credit Hours		7
<b>Semester #5 (Spring)</b>		
DFTG 2430	Civil Drafting	4
DFTG 2440	Solid Modeling & Design	4
Semester Credit Hours		8
<b>Semester #6 (Summer)</b>		
BCIS 1305 or COSC 1301	Business Computer Applications or Introduction to Computing	3
Semester Credit Hours		3
<b>Semester #7 (Fall)</b>		
DFTG 2407	Electrical Drafting	4
DFTG 2423	Pipe Drafting	4
Semester Credit Hours		8
<b>Semester #8 (Spring)</b>		
BUSI 2304	Business Report Writing and Correspondence	3
DFTG 2428	Architectural Drafting - Commercial	4
Semester Credit Hours		7
<b>Semester #9 (Summer)</b>		
Language, Philosophy and Culture/Creative Arts	Select from Core Curriculum	3
Semester Credit Hours		3
<b>Semester #10 (Fall)</b>		
DFTG 2432	Advanced Computer-Aided Drafting	4
DFTG 2381 or POFT 1300	Cooperative Education - Drafting or Career Exploration/Planning	3
Semester Credit Hours		7
Total Semester Credit Hours		60