



Design Drafting Technology Associate in Applied Science Degree 90 Credits

This degree program allows students to sample a broad range of drafting careers, including studies in mechanical, architectural, civil, and structural drafting. Students develop proficiency in board drafting and computer-aided drafting. Students prepare drawings for manufacturing and fabrication. The American National Standards Institute (ANSI) and the American Society of Mechanical Engineers (ASME) drafting and design standards are taught and reinforced as students prepare drawings in both 2-D and 3-D using AutoCAD as well as other Parametric modeling application software. Throughout this course of study, students use sketches, notes, technical literature, and personal research to complete assignments. Students may take related credits in the trade areas of building, manufacturing, engineering, and welding.

Contacts: Terry Waagan, ext. 4342 Adam Waters, ext. 4321
twaaagan@greenriver.edu awaters@greenriver.edu

Dept./No.	Course Title	Credits
Required Courses		
# ACOMP 115 or MATH& 142 or higher	Technical Math 1 or PreCalculus II or higher	5
# CMST 100 or CMST& 210 or CMST& 220	Fundamentals of Oral Communication or Interpersonal Communication or Public Speaking	5
D T 100 or D T 110 and BTAC 105 and BTAC 106	CAD Fundamentals or Introduction to AutoCAD and Computer Fundamentals: Word Computer Fundamentals: Excel	(7) (4) (2) (2) 7-8
D T 101	Technical Drafting	7
D T 102	Descriptive Geometry	7
D T 105 or Tech 100	Design Drafting Careers or Careers for the New Millennium	2
D T 113 or D T 142	SolidWorks or BIM Fundamentals Using REVIT	5
# D T 131	Drafting Across the Industries	7
D T 135	3D CAD Modeling	5
D T 200	Drafting and Design Capstone	3
D T 232	Drafting and Design Project	7
# ENGL 109 or ENGL 128	Writing for Trades and Professional/Technical Degrees or Research Writing: Science/Engineering/Business	5
Three credits from the following courses		3
CARP	Any Carpentry shop/lab course	(1-3)
INDUS	Any Industry shop/lab course	(1-3)
MFG	Any Manufacturing shop/lab course	(1-3)

This document is available in alternative formats to individuals with disabilities by contacting Disability Support Services at 253-833-9111, ext. 2631; TTY 253-288-3359; or by email at dss@greenriver.edu. Green River College is an equal opportunity educator and employer. Learn more at www.greenriver.edu/accessibility. The above referenced program of study information was current at the time of printing. The program may have been updated or changed to remain industry current. For program updates, please visit greenriver.edu or contact the program's listed faculty adviser.



Three to five credits from the following

courses	3-5	
CARP 167	Material Estimating	(3)
ENGR& 104	Introduction to Design	(5)
I E 189	Basic Metallurgy	(4)
I E 204	Statics and Strengths	(5)

Electives: Students choose -19 credits from the following list to complete 90 credits.

BUS 164	Entrepreneurship and Small Business Management	(5)
D T 110	Introduction to AutoCAD	(4)
D T 113	SolidWorks	(5)
D T 115	Geometric Dimensioning and Tolerancing	(4)
D T 116	Introduction to 3D Printing	(2)
D T 117	Modeling for 3D Printing	(4)
D T 125	Civil Drafting 1	(5)
D T 128	International Residential Code	(3)
D T 129	International Building Code	(3)
D T 141	Architectural Drafting 1	(5)
D T 142	BIM Fundamentals Using REVIT	(5)
D T 143	Intermediate Revit	(4)
D T 145	Structural Drafting-Steel	(4)
D T 146	Structural Drafting-Concrete	(4)
D T 210	Advanced AutoCAD Development 1	(4)
D T 225	Civil Drafting 2	(4)
D T 231	Mechanical Design (CADD)	(5)
D T 237	Mastercam 3D CAD/CAM	(4)
D T 241	Architectural Drafting 2	(4)
PHYS& 114	General Physics w/Lab	(5)

A maximum of five credits from the following

courses	5	
CARP	Any Carpentry shop/lab course	(1-5)
INDUS	Any Industry shop/lab course	(1-5)
MFG	Any Manufacturing shop/lab course	(1-5)

A maximum of seven credits from the following

courses	7	
BTAC 105	Computer Fundamentals: Word	(2)
BTAC 106	Computer Fundamentals: Excel	(2)
COOP 171	Work Experience Seminar	(1)
D T 175	Drafting Work Experience	(4-7)
D T 177 or	Drafting Work Experience 1 or	
D T 178 or	Drafting Work Experience 2 or	
D T 179	Drafting Work Experience 3	(3)
D T 180 or	Leadership Skills 1 or	
D T 181 or	Leadership Skills 2 or	

This document is available in alternative formats to individuals with disabilities by contacting Disability Support Services at 253-833-9111, ext. 2631; TTY 253-288-3359; or by email at dss@greenriver.edu. Green River College is an equal opportunity educator and employer. Learn more at www.greenriver.edu/accessibility. The above referenced program of study information was current at the time of printing. The program may have been updated or changed to remain industry current. For program updates, please visit greenriver.edu or contact the program's listed faculty adviser.



Summer 2017

D T 182	Leadership Skills 3	(1)
D T 199 or D T 299	Independent Study-Drafting 1 or Independent Study-Drafting 2	(1-5)
P E 113	Group Dynamic Activities	(1)
Tech 100	Careers for the New Millennium	(2)

Satisfies related instruction requirements.

Note: Courses used to satisfy “Required Courses” requirements may not be used to satisfy “Elective Courses” requirements.

This document is available in alternative formats to individuals with disabilities by contacting Disability Support Services at 253-833-9111, ext. 2631; TTY 253-288-3359; or by email at dss@greenriver.edu. Green River College is an equal opportunity educator and employer. Learn more at www.greenriver.edu/accessibility. The above referenced program of study information was current at the time of printing. The program may have been updated or changed to remain industry current. For program updates, please visit greenriver.edu or contact the program’s listed faculty adviser.