

## Computer Aided Design Technology Courses and Booklist

1ST TRIMESTER		CERTIFICATE: ASSISTANT DRAFTER	Prerequisite: NONE	
COURSE NUMBER	BOOKS AND SUPPLIES	COST	QTY	
CAD0001 Worker Characteristics	None	\$0.00		
CAD1010 Orientation & Safety	None	\$0.00		
CAD1020 Technology Foundations	Calculator	\$19.00		
CAD1030 Drawing Techniques	Drafting Kit	\$71.00		
	Headphones (Earbuds)	\$5.00		
	Technical Drawing 15th Edition; Pearson Peachpit; ISBN: 9780134306414	\$140.00		
	Lead Holder	\$11.00		
CAD1040 CAD	Flash Drive	\$6.00		
	Autodesk AutoCAD 2020 Fundamentals; SDC; ISBN: 978-1-63057-259-4	\$67.00		
	Parametric Modeling w/ Autodesk Inventor 2020; SDC; ISBN: 978-1-63057-272-3	\$75.00		
	Optional Exam - Autodesk Certified User (ACU): AutoDesk AutoCAD	\$72.82		
	Optional Exam - Autodesk Certified User (ACU): AutoDesk Inventor	\$72.82		
<b>Trimester 1: 432 Contact Hours</b>	<b>Trimester 1 Books and Supplies Total</b>	<b>\$539.64</b>		

2nd Trimester		Certificate: Detail Drafter	Prerequisite: Assistant Drafter Certificate	
COURSE NUMBER	BOOKS AND SUPPLIES	COST	QTY	
CAD0002 Worker Characteristics	None	\$0.00		
CAD2010 Technical Drawing	None	\$0.00		
CAD2020 Additive Manufacturing	None	\$0.00		
	Optional Exam - Autodesk Certified User (ACU): Fusion 360	\$72.82		
<b>Trimester 2: 432 Hours (864 Total Contact Hours)</b>	<b>Trimester 2 Tests, Books and Supplies Total</b>	<b>\$72.82</b>		

3rd & 4th Trimester Elective		Specialization: Mechanical Drafter	Prerequisite: Detail Drafter Certificate	
COURSE NUMBER	BOOKS AND SUPPLIES	COST	QTY	
CAD0003 Worker Characteristics	None	\$0.00		
CAD3050 Mechanical Design I	Beginner's Guide to SOLIDWORKS 2018 - Level I; SDC; ISBN: 978-1-63057-148-1	\$40.00		
	Beginner's Guide to SOLIDWORKS 2018 - Level II; SDC; ISBN: 978-1-63057-166-5	\$40.00		
	Optional Exam Certified SOLIDWORKS Associate - Academic	\$99.00		
<b>Trimester 3: 432 Hours (1296 Total Contact Hours)</b>	<b>Trimester 3 Tests, Books and Supplies Total</b>	<b>\$179.00</b>		

COURSE NUMBER	BOOKS AND SUPPLIES	COST	QTY	
CAD0004 Worker Characteristics	None	\$0.00		
CAD4080 Mechanical Design II	None	\$0.00		
CAD4050 Professional Development	None	\$0.00		
<b>Trimester 4: 432 Hours (1728 Total Contact Hours)</b>	<b>Trimester 4 Tests, Books and Supplies Total</b>	<b>\$0.00</b>		

3rd & 4th Trimester Elective		Specialization: Architectural Drafter	Prerequisite: Detail Drafter Certificate	
COURSE NUMBER	BOOKS AND SUPPLIES	COST	QTY	
CAD0003 Worker Characteristics	None	\$0.00		
CAD3030 Residential Architecture I	Architectural Drafting and Design, 7th Ed with MindTap; Cengage; ISBN: 9781337124362	\$230.00		
	Residential Design Using Autodesk Revit 2020; SDC; ISBN: 978-1-63057-256-3	\$40.00		
	Portfolio for Drawings	\$35.00		
	Optional Exam - Autodesk Certified User (ACU): AutoDesk Revit	\$72.82		
<b>Trimester 3: 432 Hours (1296 Total Contact Hours)</b>	<b>Trimester 3 Tests, Books and Supplies Total</b>	<b>\$377.82</b>		

COURSE NUMBER	BOOKS AND SUPPLIES	COST	QTY	
CAD0004 Worker Characteristics	None	\$0.00		
CAD4060 Residential Architecture II	None	\$0.00		
CAD4050 Professional Development	None	\$0.00		
<b>Trimester 4: 432 Hours (1728 Total Contact Hours)</b>	<b>Trimester 4 Tests, Books and Supplies Total</b>	<b>\$0.00</b>		

3rd & 4th Trimester Elective		Specialization: Structural Drafter	Prerequisite: Detail Drafter Certificate	
COURSE NUMBER	BOOKS AND SUPPLIES	COST	QTY	
CAD0003 Worker Characteristics	None	\$0.00		
CAD3060 Structural Design I	Autodesk Revit 2020 Structure Fundamentals; SDC; ISBN: 978-1-63057-290-7	\$39.00		
	Structural Steel Drafting and Design 2nd Ed.; Cengage; ISBN: 978-1401890322	\$134.25		
	Commercial Drafting & Detailing 4th Ed.; Cengage; ISBN: 9781285097398	\$191.50		
<b>Trimester 3: 432 Hours</b> <b>(1296 Total Contact Hours)</b>	<b>Trimester 3 Tests, Books and Supplies Total</b>	<b>\$364.75</b>		
COURSE NUMBER	BOOKS AND SUPPLIES	COST	QTY	
CAD0004 Worker Characteristics	None	\$0.00		
CAD4090 Structural Design II	None	\$0.00		
CAD4050 Professional Development	None	\$0.00		
<b>Trimester 4: 432 Hours</b> <b>(1728 Total Contact Hours)</b>	<b>Trimester 4 Tests, Books and Supplies Total</b>	<b>\$0.00</b>		

3rd & 4th Trimester Elective		Specialization: Civil Drafter	Prerequisite: Detail Drafter Certificate	
COURSE NUMBER	BOOKS AND SUPPLIES	COST	QTY	
CAD0003 Worker Characteristics	None	\$0.00		
CAD3040 Civil Design I	Civil Drafting Technology 8th Ed.; Pearson; ISBN: 978-0134436043	\$90.00		
	Structural, Civil and Pipe Drafting, 2nd Edition; Cengage; ISBN: 9781133949398	\$250.00		
	Autodesk Civil 3D 2020 Fundamentals; SDC Publications; ISBN: 978-1-63057-267-9	\$44.00		
<b>Trimester 3: 432 Hours</b> <b>(1296 Total Contact Hours)</b>	<b>Trimester 3 Tests, Books and Supplies Total</b>	<b>\$384.00</b>		
COURSE NUMBER	BOOKS AND SUPPLIES	COST	QTY	
CAD0004 Worker Characteristics	None	\$0.00		
CAD4070 Civil Design II	None	\$0.00		
CAD4050 Professional Development	None	\$0.00		
<b>Trimester 4: 432 Hours</b> <b>(1728 Total Contact Hours)</b>	<b>Trimester 4 Tests, Books and Supplies Total</b>	<b>\$0.00</b>		

3rd & 4th Trimester Elective		Specialization: Drafting & CAD Technician	Prerequisite: Detail Drafter Certificate	
COURSE NUMBER	BOOKS AND SUPPLIES	COST	QTY	
CAD0003 Worker Characteristics	None	\$0.00		
CAD3010 Drafting Applications	Use Technical Drawing Previous Purchase	\$0.00		
CAD3020 Working Drawings	Use Technical Drawing Previous Purchase	\$0.00		
<b>Trimester 3: 432 Hours</b> <b>(1296 Total Contact Hours)</b>	<b>Trimester 3 Tests, Books and Supplies Total</b>	<b>\$0.00</b>		
COURSE NUMBER	BOOKS AND SUPPLIES	COST	QTY	
CAD0004 Worker Characteristics	None	\$0.00		
CAD4010 Solid Modeling	Beginner's Guide to SOLIDWORKS 2018 - Level I; SDC; ISBN: 978-1-63057-148-1	\$40.00		
	Beginner's Guide to SOLIDWORKS 2018 - Level II; SDC; ISBN: 978-1-63057-166-5	\$40.00		
CAD4020 3D Illustration	None	\$0.00		
CAD 4030 Animation	None	\$0.00		
CAD 4040 Rendering	None	\$0.00		
CAD4050 Professional Development	None	\$0.00		
<b>Trimester 4: 432 Hours</b> <b>(1728 Total Contact Hours)</b>	<b>Trimester 4 Tests, Books and Supplies Total</b>	<b>\$80.00</b>		

### Course Books and Supplies Totals

Assistant Drafter Certificate Books and Supplies Total	<b>\$539.64</b>
Detail Drafter Certificate Books and Supplies Total	<b>\$612.46</b>
Mechanical Drafter Diploma Books and Supplies Total	<b>\$791.46</b>
Architectural Drafter Diploma Books and Supplies Total	<b>\$990.28</b>
Structural Drafter Diploma Books and Supplies Total	<b>\$977.21</b>
Civil Drafter Diploma Books and Supplies Total	<b>\$996.46</b>
Drafting & CAD Technician Diploma Books and Supplies Total	<b>\$692.46</b>