

COMPUTER AIDED DRAFTING AND DESIGN - DIPLOMA

Offered at: Ashland Community and Technical College, Big Sandy Community and Technical College, Bluegrass Community and Technical College, Elizabethtown Community and Technical College, Hazard Community and Technical College, Hopkinsville Community College, Jefferson Community and Technical College, West Kentucky Community and Technical College

Program Plan Number: 1513014049

May be available completely online. Please check with your academic advisor.

CAD 220	Architectural Design	4
CAD 230	Construction Techniques	4
CAD 240	Advanced Dimensioning and Measurement	4
CAD 252	Commercial Detailing	4
CAD 262	Working Drawings	4
CAD 292	Industrial Applications	4
CAD 293	Special Problems	1-4
DPT 100	Introduction to 3D Printing Technology	3
DPT 102	3D Printing Technology Fundamentals	2
ACH 110	Survey of the Architectural Profession	1
ACH 160	Building Materials and Construction I	3
ACH 291	Construction Management	3
BRX 120	Basic Blueprint Reading	3
BRX 220	Blueprint Reading for Construction	3

Course	Title	Credits
General Education		
<i>Area 1</i>		
Select one of the following three options:		3
Written Communication		
Oral Communications		
Humanities/Heritage		
<i>Area 2</i>		
Quantitative Reasoning ¹		3
Subtotal		6
Technical Core		
CAD 100	Introduction to Computer Aided Design	3
CAD 102	Drafting Fundamentals	4
CAD 112	Engineering Graphics	4
CAD 200	Intermediate Computer Aided Drafting	4
CAD 201	Parametric Modeling	4
CAD 298	Practicum	1-3
or CAD 299	Cooperative Education	
Technical Electives		22
Subtotal		42-44
Total Credits		48-50

¹ MAT 105 Business Mathematics (3 credit hours) excluded.

Technical Electives

(This list is not all inclusive, other courses may be taken as approved by the program coordinator such as courses with prefix ACH, BRX, CAR, SMT, and PLW.)

Course	Title	Credits
CAD 108	Introduction to Surveying	3
CAD 120	Introduction to Architecture	4
CAD 130	Descriptive Geometry	4
CAD 150	Programming in CAD	4
CAD 212	Industrial Drafting Processes	4
CAD 216	Building Information Modeling	4
CAD 222	Mechanical Design	4