

BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE

**Computer Aided Drafting and Design
Associate in Applied Science**

Academic Plan Code - 1513017029

Description:

A computer aided drafter and designer is a technical specialist with broad-based skills for architectural, civil, mechanical, and manufacturing fields. In this program, the students are taught manual drafting techniques and 2D and 3D CAD.

Specific skills taught include, but are not limited to, lettering, geometric construction, orthographic projections, dimensioning and tolerancing, and related technical processes.

These skills are required to transform specifications and instructions of architects, designers, and engineers into complete and precise drawings. The drafter is a skilled technician with a thorough understanding of the graphic language and is an indispensable contributor to the engineering design team.

Progression in the Computer Aided Drafting and Design program is contingent upon achievement of a grade of "C" or greater in each technical and mathematics course with maintenance of a 2.0 cumulative grade point average or above (on a 4 scale).

DFT102	Drafting Fundamentals	4
DFT112	Engineering Graphics	4
DFT122	Introduction to Computer Aided Drafting	4
DFT130	Descriptive Geometry	4
	Surveying Core	9-12
Total Credit Hours		28-31

Surveying Core
Academic Plan Code -

DFT108	Introduction to Surveying	3
SMT100	Surveying Software Applications	3
SMT102	Surveying Software Applications Lab	3
SMT120	Surveying Drafting	3
SMT122	Surveying Drafting Lab	3
SMT140	Surveying	3
SMT142	Surveying Lab	3
SMT214	Construction Surveying	3
SMT216	Construction Surveying Lab	3

**Computer Aided Drafting and Design
Certificates**

Course Number	Course Title	Credit Hours
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Detailer

Academic Plan Code -4801013029

	Computer Literacy	0-3
DFT102	Drafting Fundamentals	4
DFT112	Engineering Graphics	4
DFT122	Introduction to Computer Aided Drafting	4
	Technical Electives (See Listing)	2-6
Total Credit Hours		14-21

Drafter Assistant

Academic Plan Code -4801013049

	Computer Literacy	0-3
DFT102	Drafting Fundamentals	4
DFT112	Engineering Graphics OR	4
DFT122	Introduction to Computer Aided Drafting	(4)
	Technical Electives (See Listing)	2-6
Total Credit Hours		10-17

Civil Drafter

Academic Plan Code -

MT 110	Applied Mathematics OR	3
MAH 155	Applied Mathematics OR	(3)
	Higher Level Mathematics	(3)
Technical Core		

(Courses are listed by category and not necessarily in the order to be taken)