

Program Planning Guide

Computer-Aided Drafting Technology-Emphasis in Solid Modeling, Certificate (C50150S)

Program Length: 2/3 semesters

Career Pathway Options: Associate in Applied Science in Computer-Aided Drafting Technology; Diploma in Computer-Aided Drafting Technology; Certificate in Computer-Aided Drafting Technology

Program Sites: Lee Main Campus - Day Program

Suggested Course Schedule:	HOURS			Grade	Semester	Notes
	Class	Lab	Credit			
1st Semester (Fall)						
BPR 111	Print Reading	1	2	2		
CIS 110	Introduction to Computers	2	2	3		
		3	4	5		
2nd Semester (Spring)						
BPR 121	Blueprint Reading: Mechanical	1	2	2		
DFT 154	Intro to Solid Modeling	2	3	3		
		3	5	5		
3 rd Semester (Fall)						
DFT 254	Intermediate Solid Model/Render	2	3	3		

Total Semester Hours Credit Required for Graduation: 13

Course Descriptions:

BPR 111 Print Reading

1-2-2

This course introduces the basic principles of print reading. Topics include line types, orthographic projections, dimensioning methods, and notes. Upon completion, students should be able to interpret basic prints and visualize the features of a part or system.

BPR 121 Blueprint Reading: Mechanical

1-2-2

Take one--Prerequisite: BPR 111 or MAC 131

This course covers the interpretation of intermediate blueprints. Topics include tolerancing, auxiliary views, sectional views, and assembly drawings. Upon completion, students should be able to read and interpret a mechanical working drawing.

CIS 110 Introduction to Computers

2-2-3

This course introduces computer concepts, including fundamental functions and operations of the computer. Topics include identification of hardware components, basic computer operations, security issues, and use of software applications. Upon completion, students should be able to demonstrate an understanding of the role and function of computers and use the computer to solve problems. *This course has been approved for transfer under the CAA and ICAA as a premajor and/or elective course requirement.*

DFT 154 Introduction to Solid Modeling

2-3-3

Local Prerequisite: DFT 151

This course is an introduction to basic three-dimensional solid modeling and design software. Topics include basic design, creation, editing, rendering, and analysis of solid models and creation of multi view drawings. Upon completion, students should be able to use design techniques to create, edit, render, and generate a multi view drawing.

DFT 254 Intermed Solid Model/Render

2-3-3

Prerequisites: DFT 154

This course presents a continuation of basic three-dimensional solid modeling and design software. Topics include advanced study of parametric design, creation, editing, rendering and analysis of solid model assemblies, and multiview drawing generation. Upon completion, students should be able to use parametric design techniques to create and analyze the engineering design properties of a model assembly.