Lake Land College

Computer-Aided Drafting

(CRT.CAD) Certificate

Manufacturing

You might also like:

Workforce Ready

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Computer-Aided Drafting (CAD), also called Computer-Aided Design, has evolved from an experimental process to a highly efficient tool in the past 20 years. CAD not only replaces most manual drafting, but can also be used for generating bills of materials, doing computerized structural analysis and controlling manufacturing machines. Several companies in the local area and worldwide, both large and small, utilize CAD for a variety of purposes. Computer-Aided Drafting is a unique application of computer graphics.

The CAD draftsman can easily produce and modify plans, blueprints, designs, technical illustrations and schematics. Once a student completes the CAD certificate program, he or she will not only know how to operate a CAD system, but also how to set-up, customize and troubleshoot it. The many uses of CAD have opened many career opportunities in this exciting high-tech field. As a stand-alone certificate, the graduate can expect to find employment as a CAD draftsman or CAD operator. Those earning an associate in applied science degree can complete a few additional courses and earn a CAD certificate. The CAD certificate can greatly increase the opportunities for a good paying job in such fields as manufacturing, civil engineering, electronics or building construction.

Program requirements may change over time. Specific degree/graduation requirements are determined by the students' degree audit.

FIRST YEAR

First Semester			Hours
☐	CAD 056	CAD I (Module 1)	2
☐	CAD 058	CAD Systems (Module 2) * †	2
☐	TEC 050	Technical Math I	2
☐	TEC 052	Technical Mathematics II *	2
☐	ENG 098	Communications I	3
☐	TEC 103	Engineering Graphics	3
☐		Suggested Elective	2
		SEMESTER TOTALS	**16**

Second Semester			
☐	CAD 057	CAD II *	3
☐	CAD 059	Special Applications of CAD * †††	3
☐	CIS 160	Practical Software Applications *	3
☐		Suggested Elective	6
		SEMESTER TOTALS	**15**

SUGGESTED ELECTIVES

☐	CIM 094	Computer Integrated Manufacturing	3
☐	CAD 060	3D Solid Modeling	3
☐	CAD 061	3D Parametric Design	3
		TOTAL PROGRAM HOURS	**31**

* There are prerequisites, course requisites or minimum placement test scores for this course

† Course only offered fall semester

††† Course only offered spring semester

For more information regarding related occupations, graduation rates and program costs, go to www.lakelandcollege.edu, link to Academic Programs and select Gainful Employment Information.

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NOTES: