

Glen Oaks Community College

Drafting and Design Certificate

Students will be required to accurately detail various geometric shapes. Emphasis will be placed on American National Standards (1994) to include geometric dimensioning and tolerancing. Proper dimensioning techniques, view placement, assembly drawings and selecting proper views will be studied. Student will also draw in three dimension using solid modeling, and Inventor, all using the latest AutoCad software.

Upon completing the drafting and design certificate, students will be prepared for entry level mechanical detailing, layout work, assembly drawings and three-dimensional drawings. Students are also prepared for CAD design in the modular home and trailer industry.

Required Coursework (25 hours)

EDP 101	Introduction to Computers & Software	4 Credits
NSM 119	Math for Technicians II*	3 Credits
VTD 201	Applied Descriptive Geometry	3 Credits
VTD 215	Computer Aided Drafting (Autocad)*	3 Credits
VTD 216	Advanced Computer Aided Drafting (Autocad)*	3 Credits
VTD 217	3-D Modeling (Inventor)*	3 Credits
VTI 151	Manufacturing Processes	3 Credits
VTI 163	Statistical Process Control/Total Quality Management	3 Credits

Electives (7 hours required)

VTD 224	Machine Drafting*	4 Credits
VTD 271	Internship I*	3 Credits
VTE 110	Basic Electricity	4 Credits
VTE 111	Introduction to AC/DC Devices	4 Credits
VTM 135	Practical Metallurgy	3 Credits
VTW 170	Fundamentals of Welding	3 Credits

Minimum Hours Required 32 Credits

*Course has a prerequisite

Effective: Fall 2011

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