

INDUSTRIAL DRAFTING ASSOCIATE IN SCIENCE DEGREE

PROGRAM CODE: 2S03840A

The **Industrial Drafting Associate in Science Degree** provides the skills and knowledge for those who wish to pursue a career as a Mechanical Engineer or CAD operator/designer in fields related to engineering, tool design, and 3D Parametric Modeling in a manufacturing environment as well as other fields. This degree requires 29 units in the major in addition to other graduation requirements. At least one half of the units toward the major must be completed at Fullerton College.

Code	Title	Units
Required Courses (29 units):		
DRAF 101 F	Blueprint Reading for Manufacturing (formerly DRAF 070 F)	2
DRAF 140 F	AutoCAD for Industry	3
DRAF 141 F	Advanced CAD for Industry	3
DRAF 171 F	Fundamentals of Drafting	2
DRAF 173 F	Geometric Dimensioning and Tolerancing	2
DRAF 944 F	Solidworks	3
DRAF 945 F	Advanced Solidworks	3
MACH 150 F	CNC Programming Using Mastercam (formerly MACH 050 F)	3
or MACH 154 F	CNC Programming Using Surfcam (formerly MACH 060 F)	
MACH 116 F	Machine Tools	2
TECH 108 F	Manufacturing Processes	3
WELD 100 F	Introduction to Welding (formerly WELD 121AF)	3
Total Units		29

Outcome 1: Communicate technical ideas of mechanical and Computer Aided Drafting software to model and create detailed drawings based on ASME Y 14.5 standards that fully represent a design and function.

Outcome 2: Demonstrate the ability to create blueprints and documentation including symbols and title block requirements based on ASME standards which reflect an understanding of how these features affect the manufacturing of a product.

https://www.curricunet.com/fullerton/reports/program_report.cfm?programs_id=1171