

# DRAFTING TECHNOLOGY: INDUSTRIAL DESIGN AND MANUFACTURING OPTION, CERTIFICATE OF ACHIEVEMENT

Course ID	Title	Units/ Hours
<b>Required Courses</b>		
DRFT V05A/ ARCH V23	Introduction to AutoCAD	2
DRFT V41	Introduction to Industrial Design Graphics	3
DRFT V42	Design Drafting and 3D Solid Modeling	3
DRFT V43	Introduction to Solidworks	3
DRFT V44	Rapid Design and Prototyping	3
DRFT V50	Flexible Manufacturing Applications: Computer Assisted Drafting CAD/Computer Assisted Machining CAM	3
MT V15	Manufacturing Processes	3
<b>Required Additional Courses</b>		
Select three of the following:		7-9
DRFT V02A/ WEL V02	Blueprint Reading: Manufacturing	
DRFT/WEL V04	Measurements and Computations	
DRFT V14A	Technical Illustration	
DRFT V18	Drafting Projects	
MT V02	Applied Machining I	
MT V35	Production Machining and Tooling Design Techniques	
WEL V01	Introduction to Welding	
<b>Total Units</b>		<b>27-29</b>

## Recommended Courses

In addition to the required courses listed above, it is recommended that students who seek to obtain additional insight into the field of study consider taking one or more of the following courses: DRFT V02B Blueprint Reading: Architectural/Construction (Units: 3), DRFT V51 Design Animation and Modeling (Units: 2). Although these supplemental courses may be of value to the student, please note that they do NOT satisfy the requirements for this degree.

Upon successful completion of this program, students will be able to:

- Demonstrate an understanding of drawing methods and graphic composition techniques.
- Prepare technical drawings using computer-aided drafting (CAD) and design software.
- Analyze information to develop solutions to technical aspects of a design problem.