

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

| Course ID | Title | Units/ Hours |
|------------------------------------|---|-----------------|
| Required Courses | | |
| 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 |
| Required Additional Courses | | |
| 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 | |
| Total Units | | 27-29 |

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.