

DRAFTING TECHNOLOGY - INTERMEDIATE TECHNICAL CERTIFICATE (ITC)

Explore More About This Program: <https://cwi.edu/program/drafting-technology>

Certificate Quick Facts

- **Instructional School:** Industry, Engineering, and Trades
- **Department:** Manufacturing and Welding
- **Program Code:** DRFT.ITC
- **Program Type:** Career and Technical Education
- **Available Fully Online:** No
- **Eligible for Federal Financial Aid:** Yes

NOTE: Courses required for this program *may* have an additional fee; more information can be found on the [Special Course Fees](#) web page.

Certificate Requirements

| Course | Course Title | Min Credits |
|---------------------------------------|---|-------------|
| General Education Requirements | | |
| Select one of the following (GEM 3): | | 3-5 |
| MATH 123 | Math in Modern Society | |
| MATH 143 or MATH 143P | Precalculus I: Algebra | |
| MATH 147 | Precalculus | |
| MATH 153 | Statistical Reasoning | |
| MATH 160 | Survey of Calculus | |
| MATH 170 | Calculus I | |
| PSYC 140 | Human Relations for Career and Personal Success (GEM 6) | 3 |
| Major Requirements | | |
| DRFT 100 | Construction Materials and Processes | 3 |
| DRFT 114 | Drafting Basics | 3 |
| DRFT 118 | Introduction to Revit | 3 |
| DRFT 119 | Introduction to AutoCAD | 4 |
| DRFT 120 | Residential Architecture | 4 |
| DRFT 123 | Introduction to Solidworks | 3 |
| DRFT 139 | Applied Problem Solving for Drafting | 3 |
| DRFT 190 | Job Skills for Drafting | 1 |
| Minimum Credit Hours Required | | 30 |

Certificate Plan: Fall Start

The course sequence listed below is strongly recommended in order to complete your program requirements. Many Career and Technical Education (CTE) courses have prerequisites and/or corequisites that have been accounted for within this course sequence plan. Please register for your major requirements each semester as shown below using the Student Planning tool in myCWI. Consult your advisor for any questions regarding this plan.

NOTE: The required general education courses may be completed during any semester the student prefers, including summer semesters.

First Year

| Fall | | Credit Hours |
|------------------------------------|---|--------------|
| DRFT 100 | Construction Materials and Processes | 3 |
| DRFT 114 | Drafting Basics | 3 |
| DRFT 118 | Introduction to Revit | 3 |
| DRFT 119 | Introduction to AutoCAD | 4 |
| PSYC 140 | Human Relations for Career and Personal Success (GEM 6) | 3 |
| Total Semester Credit Hours | | 16 |
| Spring | | |
| DRFT 120 | Residential Architecture | 4 |

| | | |
|--------------------------------------|---|-----------|
| DRFT 123 | Introduction to Solidworks | 3 |
| DRFT 139 | Applied Problem Solving for Drafting | 3 |
| DRFT 190 | Job Skills for Drafting | 1 |
| Select one of the following (GEM 3): | | 3-5 |
| MATH 123 | Math in Modern Society | |
| MATH 143 or MATH 143P | Precalculus I: Algebra or Precalculus I: Algebra | |
| MATH 147 | Precalculus | |
| MATH 153 | Statistical Reasoning | |
| MATH 160 | Survey of Calculus | |
| MATH 170 | Calculus I | |
| Total Semester Credit Hours | | 14 |
| Minimum Credit Hours Required | | 30 |

Program Learning Outcomes

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

- Use their understanding of machine and architectural drafting and design to become an entry-level drafter/designer in one of the disciplines of drafting.
- Use at least two types of software for Computer-Aided Drafting and Design (CADD) for producing two and three-dimensional objects.
- Analyze problems related to the profession requiring integration of fundamental skills in drafting, CADD, and required mathematics.
- Apply critical thinking and problem-solving skills to drafting and design related tasks.