

# CAREER TECHNICAL EDUCATION PATHWAY: Applied Engineering- Drafting (C40130HD)



## Career & College Promise (CCP)

CCP provides opportunities for eligible NC high school students to take tuition-free, college courses for dual credit (some students may have to pay for textbooks and materials). Taking CCP courses accelerates completion of college certificates, diplomas, applied associate degrees that provide entry-level job skills, and associate degrees that lead to transfer within the UNC System of 4-year colleges and universities and many private institutions.

## General Admission Requirements

- College CCP Admissions Application
- High School Transcript
- Verification Form

## Applied Engineering (Drafting) Pathway

### Eligibility Requirements

- High School Junior or Senior
- Unweighted GPA of 2.8 or higher, **OR**, demonstrate college readiness in English, reading and math on approved assessments.
- If GPA is below 2.8, principles/designees can waive the GPA and provide rationale for waiver.



## About the Applied Engineering (Drafting) Pathway:

This pathway is a set of courses that students can take to earn a certificate toward the Associate of Applied Science Applied Engineering Degree. These courses prepare students to use basic engineering principles and technical skills to solve technical problems in various types of industry.

## Median Annual Wage for NC Mechanical Drafters \$57,630

NCCareers.org

## You will learn:

- Engineering Graphics
- Materials & Manufacturing Processes
- Process Design of Engineering Parts

## Possible Job Titles:

- CAD (Computer Assisted Design) Drafter
- Design Drafter/Estimator
- Manufacturing Technician

## Possible Employment Opportunities:

- Manufacturing companies
- State/local government agencies
- Construction or construction-related industry

## Applied Engineering (Drafting) Certificate

Sem	Title	Class	Lab	Credit
FA	DFT 119 Basic CAD ( <i>strongly recommended as a foundation class</i> )	1	2	2
varies	DFT 152 CAD II ( <i>Pre-req DFT 119</i> )	2	3	3
SP	DFT 154 Intro to Solid Modeling	2	3	3
varies	ISC 132 Manufacturing Quality Control	2	3	3
varies	MAC 118 Machine Shop Basic	1	3	2
<b>Total Semester Hours Credit for Certificate</b>				<b>13</b>

*\*DFT classes use software that will require a Microsoft based PC (MAC and Chromebook will not work) for online students or to work outside class; open computer lab on campus may be loaded with required software if necessary*

For more information, contact: Trish Holsten, Secondary Partnerships Director  
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wilsoncc.edu | (252) 291-1195 | 902 Herring Avenue, P.O. Box 4305 Wilson, NC 27893

## High School (electives)

### High School

**COMPLETE GRAD REQ:**

- English (4), Math (4), Science (3), Social Studies, Health/PE, electives

**SUGGESTED HS ELECTIVES:**

- Drafting I & II
- Agricultural Mechanics I & II
- CCP Electives

## CCP Dual Enrollment (college/HS concurrently)

### WCC Appl Engineering- Drafting Pathway

**CCP JR AND SR YEARS SUGGESTED:**

- DFT 119 Basic CAD
- DFT 152 CAD II
- DFT 154 Intro to Solid Modeling
- ISC 132 Manufacturing Quality Control
- MAC 119 Machine Shop Basics

## After High School (post-graduation)

### WCC Appl Engineering- AAS Degree

**GENERAL ED:**

- English, Math, Psychology, Critical Thinking

**APPLIED ENGINEERING CLASSES:**

- Intro to Electricity
- Diagrams and Schematics
- Industrial Safety
- Motors and Controls
- Intro to PLC (Programmable Logic controller)
- Circuit Analysis I
- Intro to Automation
- Instrumentation
- Hyd./Pneumatics
- PLC Applications
- Applications Project
- Mechanisms

**ADDITIONAL REQ CLASSES:**

- College Student Success
- Intro to Computers

