

CTE 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 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 portion of 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 \$59,480

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

Total Semester Hours Credit for Certificate 13

**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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CONNECTING HIGH SCHOOL, COLLEGE, AND CAREER

**High School
(electives)**

**CCP Dual Enrollment
(college/HS concurrently)**

**After High School
(post-graduation)**

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

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

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

