

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.

Career Cluster: Trade and Industry Education

Annual Wage Range for NC

Mechanical Drafters \$44,270-\$84,350

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

TRAD 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	TDP 110 Intro into 3D Printing	2	3	3
varies	MAC 131 Blue Print Reading	1	2	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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After High School (full-time enrollment)

WCC Appl Engineering- AAS Degree

GENERAL ED:

- English, Math, Psychology, Critical Thinking

- 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

- College Student Success
- Intro to Computers

