



Pittsylvania Career and Technical Center  
**Precision Machining**

For More Information

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# Precision Machining

9 <sup>th</sup> Grade
English 9
World History I or II
Earth Science
Algebra I or Geometry
PE9
Materials & Processes Technology (8433)
Digital Applications (6611)
Elective

## Dual Enrollment Credit

### Courses at Base School

- ◆ Technical Drawing & Design (3)
- ◆ Engineering, Drawing, & Design (3)
- ◆ Computer Information Systems (3)

### Courses at PCTC

- ◆ MAC101 Machine Shop I (8)
- ◆ SAF130 Industrial Safety (1)
- ◆ MAC102 Machine Shop II (7)
- ◆ MTH111 Basic Technical Math I (3)
- ◆ MAC221 Adv. Machine Tool Operations (7)
- ◆ MAC121 Numerical Control (3)
- ◆ MAC 116 Machinist Handbook (2)
- ◆ MAC127 Advanced CNC Programming (3)
- ◆ DRF160 Machine Blueprint Reading (3)

10 <sup>th</sup> Grade
English 10
Biology
Geometry, Algebra II, or Algebra Functions & Data Analysis
PE10
Computer Information Systems 6612
Elective
Technical Drawing & Design (8435) — First Semester
Engineering, Drawing, & Design (8436) — Second Semester

## Industry Certifications

### National Institute for Metalworking Skills (NIMS)

- ◆ NIMS Measurement, Materials, and Safety Level I
- ◆ NIMS CNC Turning Operations Level I

### Credentials

- ◆ OSHA 10

11 <sup>th</sup> Grade
English 11
US History
Economics & Personal Finance
Algebra Functions & Data Analysis, Adv. Algebra/Trigonometry, or Pre-Calculus
<b>Fall Semester</b>
Precision Machining I (85396)
<b>Spring Semester</b>
Precision Machining I (85396)

12 <sup>th</sup> Grade
English 12
US Government
Elective
Environmental Science, Astronomy, or Chemistry
<b>Fall Semester</b>
Precision Machining II (85406)
<b>Spring Semester</b>
Precision Machining II (85406)

## Program Benefits

- ◆ A student who graduates and passes all of the program requirements would graduate high school with:
  - Standard or advanced diploma
  - 30 High School Credits
  - 48 Dual Enrollment College Credits
- ◆ Students/Parents can save an estimated \$6,000 of college tuition by completing the Program of Study while in high school.
- ◆ Students can enroll in the Precision Machining Technology Program at DCC in August and graduate in May prepared for high paying jobs.
- ◆ Students are prepared for a seamless transition into Danville Community College's Precision Machining Program.

\*\*Please note, in addition to Technical and Program requirements, students must complete the requirements for graduation at the base school.