



Dual Enrollment  
**Basic Machining Certificate**

**Cluster Area: Manufacturing**

**Pathway: Production**

The purpose of the Basic Machining certificate program is to prepare students for a machine tool operator position within a CNC machine tool establishment or as a machine tool assistant for a business operation. The Basic Machining certificate program provides knowledge, skills and attitudes necessary for success in performing machine tool operator functions within a machine tool manufacturing facility.

**Lanier Tech**

**High School Alignment**

|         |                              |        |      |                                     |      |
|---------|------------------------------|--------|------|-------------------------------------|------|
| MCH 101 | Introduction to Machine Tool | 6 hrs. | 5405 | Introduction to Precision Machining | .8   |
| MCH 102 | Blueprint Reading I          | 5 hrs. | 5406 | Benchwork and Drill Press           | .66  |
| MCH 104 | Machine Tool Math I          | 5 hrs. | 5408 | Introduction to Manuf/Eng Science   | .66  |
| MCH 109 | Lathe Operations I           | 6 hrs. | 5410 | Basic Machine Tool Operations       | .8   |
| MCH 115 | Mill Operations I            | 6 hrs. | 5411 | Basic Machine Tool Operations       | .8   |
|         |                              |        | 4151 | Apprenticeship                      | 1.0  |
|         |                              |        |      |                                     | 4.72 |

- Upon completion of coursework, students meet Career & Technology requirements for a Technical or Dual Diploma in a career pathway (3+1) if an Apprenticeship experience is also completed (as shown above).

**Additional Post Secondary Options:**

Students may transfer some course credits toward the following diploma/degree programs:

**Machine Tool Technology Diploma**



**Certificate program  
 offered on site at the  
 Lanier Technical College.**