

Dear Machine Tool Technology student,

This handout has been designed to clarify the path to success. The Certificate of Achievement in this field consists of three semesters of study starting in Fall of any year. You will enter the path in your first semester by taking introductory classes "Machine Tool Introduction" and "Blueprint Reading". These classes will provide the basic knowledge of blueprint reading and measuring instruments. You will also take "Shop Inspection" and "Setup and Operation of CNC Lathes" classes. These classes will teach you how to interpret the customer basic requirements and how to produce a part.

In your second semester, you will stay the path by taking a series of classes such as: "Geometrical Dimensioning and Tolerancing", "Fixture Tooling" and "Setup and Operation of CNC Milling Machines" where you will learn about specifications, planning, design, fabrication, and machining methods as well as computer-assisted inspection. In your third semester, you will complete the path by taking "Manual Machining Laboratory" and "SolidWorks Introduction" classes. You will learn how to create solid models and make blueprints using Computer-Aided Design (CAD) software. In addition, you will also receive hands-on practice with conventional machines. These classes will build on what you learned and prepare you for entry-level employment.



ASSOCIATE OF ARTS DEGREE IS ALSO AVAILABLE NEW STUDENTS AND/OR FIRST SEMESTER (FALL)

| Course | Course Name | Semester Offered |
|--------------------|---------------------------------------|--------------------------|
| MTT 56 (2 units) | CNC Shop Inspection [4] | Fall |
| MTT 57 (2.5 units) | Setup and Operation of CNC Lathes [1] | Fall and Spring |
| MTT 100 (2 units) | Machine Tool Introduction [1,3] | Fall, Spring, and Summer |
| ENGT 116 (2 units) | Blueprint Reading [1,3,4] | Fall, Spring, and Summer |
| 8.5 Units | 4 Classes | |

CONTINUING STUDENTS SECOND SEMESTER (SPRING)

| Course | Course Name | Semester Offered |
|--------------------|---|------------------|
| MTT 52 (2.5 units) | Setup and Operation of CNC Milling Machines [1,3] | Fall and Spring |
| MTT 62 (2 units) | Fixture Tooling [2,3] | Spring |
| MTT 68 (2 units) | Computer Assisted Inspection Using Verisurf [2,3] | Fall and Spring |
| ENGT 117 (2 units) | Geometrical Dimensioning and Tolerancing [4] | Fall and Spring |
| 8.5 Units | 4 Classes | |

CONTINUING STUDENTS THIRD SEMESTER (SUMMER)

| Course | Course Name | Semester Offered |
|--------------------|---------------------------------|--------------------------|
| MTT 94L (1 unit) | Manual Machining Laboratory [1] | Fall, Spring, and Summer |
| ENGT 259 (4 units) | SolidWorks Introduction [1,4] | Fall, Spring, and Summer |
| 5 Units | 2 Classes | |

Notes: 1-Classes are usually offered during evening 3-Classes are usually offered on Saturdays
2-Classes are offered as "Credit By Exam" 4-Classes are usually online



Machine Tool Technology

For more information on Certificates, please refer to the current General Catalog: www.cerritos.edu/catalog