

Common Course Outline
CAMM 152
TURNING TECHNOLOGY
3 Semester Hours

The Community College of Baltimore County

Description

Turning Technology

Provides instruction and practice in the theory and operation of engine lathes; includes set-up, operation, adjustment and maintenance.

Prerequisite: CAMM 111

Overall Course Objectives

Upon completion of this course the student will be able to:

1. Set-up and operate engine lathes
2. Use an engine lathe to chase precision threads
3. Construct various tapers on the lathe
4. Create and use their own edge tools for engine lathes
5. Construct simple and complex set-ups for projects
6. Calculate feeds and speeds for various work materials and cutting tools
7. Create precision turned parts to specifications
8. Evaluate finished lab projects as per specifications and list deficiencies

Major Topics

- I. The engine lathe
 - A. Safety
 - B. Advanced cutting tools
 - C. Speeds and feeds
 - D. Work support devices
 - E. Tool holding devices

- II. Processes
 - A. Cutting tapers using the compound slide
 - B. Using the taper attachment
 - C. Truing the work piece in a 4 jaw chuck
 - D. Turning between centers
 - E. Turning irregular shaped parts
 - F. Knurling
 - G. Chasing threads

Course Requirements

Grading: The faculty member will determine grading procedures, and a student can expect a minimum of eight grades from at least four of the following categories:

1. Quizzes
2. Lab projects
3. Written paper
4. Homework assignments
5. Midterm exam
6. Class participation
7. Comprehensive final.

Other Course Information

This course is taught in a laboratory environment.

Date Revised: 6/1/00