CIM 1203  Lathe Turning II

Course Information

Description  In this course, students will have the opportunity to continue to develop their skills with lathe turning with practical, hands-on experiences in a lab setting. Set-up, operation, and safety of lathe use will be reinforced in this course. (Prerequisites: CIM 1103 - Lathe Turning I)

Total Credits  3.00
Total Hours  96.00

Types of Instruction

Instruction Type  Credits/Hours
Lab  3/96

Pre/Corequisites

Prerequisite  CIM 1103 - Lathe Turning I

Institutional Core Competencies

Analysis and inquiry: Students will demonstrate an ability to analyze information from multiple sources and to raise pertinent questions regarding that information.

Foundations and skills for lifelong learning: Students will display an understanding of learning as a lifelong process through demonstration of a desire to learn, the willingness to apply learning to other areas of their lives, the ability to think and act independently, be willing to take the initiative to get projects done, and demonstrate the ability to reflect upon what has occurred and how it impacts the student and others.

Teamwork and problem-solving: Students will demonstrate the ability to work together cohesively with diverse groups of persons, including working as a group to resolve any issues that arise.

Course Competencies

1

Explain the functions and parts of the lathe.

Learning Objectives
Identify all the parts of a lathe.
Demonstrate the function of each part of a lathe.

2

Demonstrate comfort with various toolholding devices.

Learning Objectives
Identify a variety of toolholding devices.
Use toolholding effectively.
3 **Compare and contrast roughing and finishing operations.**
Learning Objectives
Describe roughing operations.
Describe finishing operations.
Utilize appropriate operation for a given task.

4 **Describe the different classes of fit.**
Learning Objectives
Identify classes of fit.
Apply class of fit to a lathe task.

5 **Exhibit lathe safety precautions.**
Learning Objectives
Identify processes in place to ensure safety on the lathe.
Practice safe use and maintenance of the lathe.

6 **Practice use of precision measurement hand tools.**
Learning Objectives
Explain use of various hand tools.
Select tools for scenarios.
Demonstrate precision measurement tool use skills.

7 **Perform calculations required for lathe projects.**
Learning Objectives
Identify necessary calculations for a task.
Explain why correct calculations are essential.

8 **Utilize lathe for a variety of projects.**
Learning Objectives
Create a variety of parts on the lathe.
Use engineering drawings to determine job specifications.
Utilize prints to make parts.

9 **Implement a comprehensive machine maintenance plan.**
Learning Objectives
Identify maintenance needs for the lathe.
Evaluate maintenance plan and modify as needed.
Complete maintenance in an ongoing way.

**SCC Accessibility Statement**
If you have a disability and need accommodations to participate in the course activities, please contact your instructor as soon as possible. This information will be made available in an alternative format, such as Braille, large print, or cassette tape, upon request. If you wish to contact the college ADA Coordinator, call that office at 507-389-7222.

Disabilities page [http://southcentral.edu/academic-policies/disability-rights.html](http://southcentral.edu/academic-policies/disability-rights.html)