

# Linn-Benton Community College, Machine Tool Technology Department

## Course Syllabus

Course name: Manufacturing Processes 2

Credits: 2

Prerequisite: none

Days, Hours: Friday, 9:00am-11:50am

Location: IB103

Instructor: Samuel Studach

Office hours: by appointment

Office Phone Number: 541-917-4252

Email address: studacs@linnbenton.edu

Catalog description: This course provides training and learning experiences in machining operations. Students will be using the lathe, milling machine and other machine tools to complete projects. Students are required to demonstrate some design responsibilities. Skills for successful employment are emphasized.

Course learning outcomes: Students successfully completing this course will be able to:

- Set-up and operate the vertical milling machine and the engine lathe.
- Apply safe shop practices.
- Understand the relationship between cutting speed, feed rate and depth of cut.
- Understand tool geometry and use a bench grinder to sharpen a tool bit.
- Make accurate measurements with a micrometer, caliper and three wires.

Learning activities: This course will include lectures, quizzes, tests, demonstrations and a machine shop project.

Assessment tasks: A student's progress will be evaluated as follows:

- Attendance, participation and quizzes 100%

### Course content

The following topics will be covered in this course:

- Safety in the machine shop
- Basic blueprint interpretation as it relates to threads
- ANSI thread specifications

- How to calculate thread pitch
- Single point threading on a lathe
- How to sharpen a lathe tool for threading
- The three wire method for measuring thread pitch diameter

### **Request for Special Needs or Accommodations**

Direct questions about or requests for special needs or accommodations to the LBCC Disability Coordinator, RCH-105, 6500 Pacific Blvd. SW, Albany, Oregon 97321, Phone 541-917-4789 or via Oregon Telecommunications Relay TTD at 1-800-735-2900 or 1-800-735-1232. Make sign language interpreting or real-time transcribing requests 2-4 weeks in advance. Make all other requests at least 72 hours prior to the event. LBCC will make every effort to honor requests. LBCC is an equal opportunity educator and employer.

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Students who may need accommodations due to documented disabilities, who have medical information which the instructor should know, or who need special arrangements in an emergency should speak with their instructor during the first week of class. If you believe you may need accommodations but are not yet registered with the Center for Accessibility Resources (CFAR), please visit the [CFAR Website](#) for steps on how to apply for services or call 541-917-4789.