

Lathe Concepts

TEMT - 1200 102

Course Student Learning Outcomes

- Demonstrate safe practices of a precision lathe machine.
- Demonstrate proper machine maintenance and workstation clean-up.
- Demonstrate proper tool selection and application.
- Demonstrate proper work holding device selection and setup.
- Calculate efficient speeds and feeds for lathe tooling.
- Demonstrate accurate facing operations.
- Demonstrate accurate turning operations.
- Demonstrate accurate chamfer/taper turning operations.
- Demonstrate accurate hole forming operations for size and location.
- Perform accurate threading operations.
- Perform accurate knurling operations.
- Perform calculations needed to operate precision machine.
- Inspect and document finish dimension using various metrology.

Course Prerequisites

TEMT 1000

Engagement Plan

Example language:

- I will respond to email within one calendar day. I will offer feedback on major assignments within one calendar day. The best way to contact me is via the Canvas

Inbox, as I will prioritize this email over other modes of communication.

- In this course I will be posting interactive announcements which will offer specific opportunities for class questions and extra credit every other week.
- Additionally, I will be participating in the discussion forums with you to share my perspective within the discipline and to offer some nuances of interpretation that may not be present in your textbook.
- Lastly, we'll be holding small group Q & A sessions, where we can learn from our peers (and faculty) on some of the more difficult units within the course.

Brief Description of Assignments/Exams

Lecture for one hour daily, followed by lab assignment daily.

Assignment Schedule

Due Date	Assignment Name	Assignment Type	Points
	Critical Thinking Assignment	Assignment	24
	Introduce Yourself	Discussion	0
	Introduce Yourself	Discussion	0
	Introduce Yourself	Discussion	0
	Module 1: Lab 1 Check-in	Assignment	0
	Module 1: Lab 1 Check-in	Assignment	0
	Module 1: Lathe Parts Quiz	Quiz	6
	Module 10: Lab 10 Check-in	Assignment	0

Due Date	Assignment Name	Assignment Type	Points
	Module 10: Lab Final 3 Check-in	Assignment	20
	Module 11: Lab 11 Check-in	Assignment	0
	Module 11: Lab Final 4 Check-in	Assignment	14
	Module 12: Written Exam 2 Form A	Quiz	32
	Module 2: Feeds and Speeds Quiz	Quiz	6
	Module 2: Lab 2 Check-in	Assignment	0
	Module 3: Lab 2 Check-in	Assignment	0
	Module 3: Lab 3 Check-in	Assignment	0
	Module 3: Lab Final 1 Check-in	Assignment	12
	Module 3: Labs 3 & 4 Check-in	Assignment	0
	Module 4: Lab 4 Check-in	Assignment	0
	Module 4: Lab Final 2 Check-in	Assignment	12
	Module 4: Lab Final 3 Check-in	Assignment	10
	Module 5: Lab 5 Check-in	Assignment	0

Due Date	Assignment Name	Assignment Type	Points
	Module 5: Lab Final 4 Check-in	Assignment	8
	Module 6: Blueprints and Instructions	Assignment	0
	Module 6: Lab 6 Check-in	Assignment	0
	Module 6: Lab Final 1 Check-in	Assignment	20
	Module 6: Lab Final 5 Check-in	Assignment	14
	Module 6: Lab Final 6 Check-in	Assignment	10
	Module 6: Written Exam 1 Form A	Quiz	52
	Module 6: Written Exam 1 Form B	Quiz	52
	Module 7: Written Exam Form A	Quiz	40
	Module 7: Written Exam Form B	Quiz	40
	Module 9: Lab Final 2 Check-in	Assignment	20
	Module 9: Labs 8 & 9 Check-in	Assignment	0

Grading Scale

95-100%=A

80-94%=B

less than 80%=E

How to Navigate to Canvas

Institutional Policies

As members of our academic community, we would like to invite you to review the Institutional Syllabus which covers important policies and procedures. This document contains important links for students on the code of student rights and responsibilities, academic integrity, and grading policies, Title IX and other important acknowledgements. By familiarizing yourself with this information, you can help us create a safe and respectful environment for everyone.

For more information, navigate to the Institutional Policies tab on the [Institutional Syllabus](#) page.

Learning Support and Tutoring Services

We are pleased to offer a range of tutoring and learning support services to help you achieve your academic goals. Whether you need assistance with a specific subject or want to improve your study skills, you have many options for tutoring or other support.

To learn more about the services we offer and how to access them, visit the [Institutional Syllabus](#) page under the Tutoring and Learning Support tab. We encourage you to take advantage of these resources to help you succeed in your studies. If you have any questions or would like to schedule a tutoring session, please don't hesitate to reach out to us. We are here to support you in any way we can.

Advising and Counseling Support Services

At our institution, we are committed to supporting your academic and personal growth. That's why we offer a range of advising and counseling services to help you navigate the

challenges of college life. To learn more about the resources available to you and how to access them, visit the [Institutional Syllabus](#) page under the Advising and Counseling Support Services tab. Our advising team and the support centers across campus are here to support you in achieving your goals and overcoming any obstacles you may face.

Student Academic Calendar

As students you should be aware of all important dates in the semester, such as the day that courses begin and end, as well as the drop date and the last day to withdraw. To learn more about those dates, navigate to the Student Academic Calendar below:

[SLCC Student Academic Calendar](#)