

Mill Concepts

TEMT - 1100 102

Course Student Learning Outcomes

- Demonstrate safe operation of a milling machine.
- Demonstrate use of indicators relating to aligning, work holding, and fixturing.
- Demonstrate proper machine maintenance and workstation clean-up.
- Demonstrate proper work holding device selection and setup.
- Demonstrate efficient speeds and feeds for mill tooling.
- Perform accurate milling of pockets, windows, and slots.
- Perform accurate hole forming, mill operations for size and location.
- Perform accurate angle milling.
- Create and evaluate milled surface finishes.
- Perform calculations needed to operate precision machines.
- 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

We will lecture for one hour daily, and lab assignments will be completed daily.

Assignment Schedule

Due Date	Assignment Name	Assignment Type	Points
	Introduce Yourself	Discussion	0
	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: Lab Final 1 Check-in	Assignment	10
	Module 2: Lab 2 Check-in	Assignment	0
	Module 2: Lab Final 2 Check-in	Assignment	12

Due Date	Assignment Name	Assignment Type	Points
	Module 2: Quiz	Quiz	6
	Module 3: Lab Final 3 Check-in	Assignment	14
	Module 4: Lab 4 Check-in	Assignment	0
	Module 4: Lab 4 Check-in	Assignment	0
	Module 5: Determining Drill Sizes for Tapped Holes Quiz	Quiz	6
	Module 5: Lab 5 Check-in	Assignment	0
	Module 5: Lab Final 4 Check-in	Assignment	16
	Module 6: Calculating Required Gauge Block Height Using Sine Bar Equation Quiz	Quiz	6
	Module 6: Lab Final 5 Check-in	Assignment	8
	Module 7: Lab 7 Check-in	Assignment	0
	Module 7: Lab Final 1 Check-in	Assignment	2
	Module 7: Lab Final 2 Check-in	Assignment	10

Due Date	Assignment Name	Assignment Type	Points
	Module 7: Lab Final 3 Check-in	Assignment	6
	Module 7: Lab Final 6 Check-in	Assignment	10
	Module 7: Lab Final 7 Check-in	Assignment	6
	Module 7: Written Exam Form A	Quiz	31
	Module 7: Written Exam Form A	Quiz	32
	Module 7: Written Exam Form B	Quiz	31

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](#)