EDDT - 1500 - Manual Machining

2022-2023 Course Proposal - NEW

Read Before You Begin

FILL IN all fields required marked with an *.

ATTACH supporting documentation and complete the **Acknowledgement** section.

LAUNCH proposal by clicking Validate and Launch at the top. Once the proposal has been launched, approve the proposal to move the proposal forward in the workflow.

This course proposal form is to create a NEW a course, if you need to REVISE, SUSPEND, or DISCONTINUE a course please use the course proposal form designed for that purpose.

WHEN proposing a new course prefix or course number, please contact the Curriculum Coordinator to discuss availability of prefix and/or number.

Course Curriculum Outline

Rationale* Combine the previous MCCT 1500 and MCCT 1510 into one course. **This replaces a previously started revised entry.** The only changes here between the previous revised entry and this one are some updates due to comments.

Division* Natural Sciences & Engineering

Prefix* EDDT

Number* 1500

Course Title* Manual Machining

Long Course Title Manual Machine Shop Theory and Lab

Course Description* Basic machine shop theory including: safety, setup and operation of lathes and mills, machine and tool performance, metrology, process planning, interpretation of engineering drawings, and an introduction to CNC equipment. Lab experience is included.

Prerequisite(s):* None

Recommended Prerequisite(s):* None

Corequisite(s):* None

Recommended Corequisite(s):* None

Other Registration Restrictions* None

Semesters Taught:*
- [x] Fall
- [x] Spring
- [ ] Summer

SLCC Equivalent Course(s):* This is equivalent to MCCT 1500 (previous lecture component) and MCCT 1510 (previous lab component). These courses are slated to be discontinued.

Can this Course be Repeated for Additional Credit?* ( ) Yes (•) No

If Yes, What's the Repeat Limit?

Is there an Equivalent (or Potentially Equivalent) Course at other USHE Institution(s)?* (•) Yes ( ) No

If Yes, Explain: MFET1210 (WSU)

General Education Designation

Is this Course Designed for General Education?* ( ) Yes (•) No

If yes, Indicate General Education Designation:
( ) Composition (EN) ( ) Quantitative Literacy (QL) ( ) American Institutions (AI)
( ) Lifelong Wellness (LW) ( ) Communication (CM) ( ) International Global (IG)
( ) Fine Arts (FA) ( ) Fine Arts Diversity (FA,DV) ( ) Humanities (HU)
( ) Humanities (HU,DV) ( ) Life Sciences (LS) ( ) Life Sciences Diversity (LS,DV)
( ) Physical Sciences (PS) ( ) Physical Sciences Diversity (PS,DV)
( ) Social Sciences (SS) ( ) Social Sciences Diversity (SS,DV)
( ) Human Relations (HR) ( ) Quantitative Studies (QS)

Course Hours

Does this Course use Credit Hours or Clock Hours?* (•) Credit Hours ( ) Clock Hours

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Fill out the appropriate section according to your response above:

Credit Hour Course

Credit Hours: 3

Contact Lecture: 2

Contact Lab/Other: 3

Total Contact Hours: 5

Clock Hour Course

Clock Hours:

Billable Hours:

Total Contact Hours:

Course Learning Outcomes

SLCC College-Wide & General Education Student Learning Outcomes.

Complete the applicable fields below with the course-level student learning outcomes and indicate how they align to the SLCC College-Wide outcome in the text area.

Course-level learning outcomes may fit in several College-wide outcomes; select the best area(s) based upon the primary purpose of the course learning outcome. If the course does not include one or more of the College-wide outcomes, please leave text area blank.

See SLCC Assessment webpage for additional details about College-Wide Student Learning Outcomes.

Acquire Substantive Knowledge

Learn and demonstrate industrial safety specific to the machine shop environment.

Develop part design improvements that would improve the manufacturability of an existing design.

Determine the most economical steps to produce parts manufactured in the machine shop.

Use SPC to determine the stability of a process.

Properly select and use metrology equipment found in a machine shop environment.

Correctly operate manual lathes and mills.

Communicate Effectively	Use proper machine shop terminology.
Develop Quantitative Literacies	Determine the most economical steps to produce parts manufactured in the machine shop. Calculate the cost of parts built in the machine shop.
Think Critically & Creatively	Develop part design improvements that would improve the manufacturability of an existing design.
Develop Civic Literacy & Become a Community Engaged Learner	N/A
Work in a Professional & Constructive Manner	N/A
Develop Computer & Information Literacy	Use SPC to determine the stability of a process.
Develop Lifelong Wellness	N/A

Acknowledgements and Attachments

Please attach any required files by navigating to the right side menu and clicking "Files". Record when this has been completed in the checkbox, below.

REMINDER: Revisions made to the *Course Learning Outcomes* will require an updated syllabus be completed and attached to this proposal.

Acalog Owner

Attached*

- ☑ I acknowledge that all areas of this proposal are complete as required for the purpose of this proposal.
- ☑ A representative syllabus is attached.
- ☑ The General Education Rationale is attached if required.

Acalog Course OID:

Steps for EDDT - 1500 - Manual Machining

Originator

Status: *Approved*

Participants

Jonathan Barnes 2/7/2022 4:31 PM

Associate Dean/Chair

Status: *Approved*

Participants

Jonathan Barnes 2/7/2022 4:32 PM

Curriculum Technician

Status: *Approved*

Participants

Janice Rogers 2/8/2022 9:51 AM

Analysis & Implementation Council Review

Status: *Force Approved*

Participants

▲ **Analysis & Implementation Council**

Katrina Green *

Rachel Lewis *

Bryce Powell *

▲ **Additional Participants**

Originator Response

Status: *Force Approved*

Participants

Jonathan Barnes

Bryce Powell (System Administrator)
2/9/2022 12:52 PM

School Curriculum Committee

Status: *Approved*

Participants

▲ **School Curriculum Committee**

✓ **Janice Rogers *** 2/9/2022 12:53 PM

Senate Curriculum Committee

Status: *Force Approved*

Participants

▲ **Senate Curriculum Committee**

2022-02-14_SenateCurr_Proposals

Jenny Huynh *

Rachel Lewis *

Rebecca Lowell *

○ **Bryce Powell ***

▲ **Additional Participants**

Faculty Senate

Status: *Force Approved*

Participants

▲ **Faculty Senate**

2022-03-21_FacSenate_CurriculumProposals

Jenny Huynh *

Rachel Lewis *

○ **Bryce Powell ***

▲ **Additional Participants**

Provost

Status: *Force Approved*

Participants

○ **Rachel Lewis**

Jason Pickavance

Clifton Sanders

✓ ***Rachel Lewis (System Administrator)***
3/22/2022 1:37 PM

Published to Catalog

Status: *Force Approved*

Participants

Rachel Lewis

Courtney Wood 5/6/2022 2:55 PM

Katrina Green (System Administrator)
5/31/2022 10:05 AM

Attachments for EDDT - 1500 - Manual Machining

CCO_EDDT_1500_Syllabus.docx (uploaded by Jonathan Barnes, 2/7/2022 4:29 pm)