# **COURSE OUTLINE**

**DIVISION: Workforce Development** 

**COURSE: MET 1205 Tooling Processes II** 

Effective Date: F	all 2024	
Credit Hours: 3	3	
•	apply or mark "N e(s): None	lone" where appropriate:
	by assessment se describe:	or other measure? ☐ Yes ⊠ No
Corequisite	e(s): None	
Pre- or Cor	requisite(s): ME	Т 1204
Consent of	Instructor: Y	′es ⊠ No
Delivery Method:	<ul><li>  Lecture</li><li>  Seminar</li><li>  Lab</li><li>  Clinical</li></ul>	<ul> <li>2 Contact Hours (1 contact = 1 credit hour)</li> <li>0 Contact Hours (1 contact = 1 credit hour)</li> <li>2 Contact Hours (2-3 contact = 1 credit hour)</li> <li>0 Contact Hours (3 contact = 1 credit hour)</li> </ul>
Offered: X Fall	⊠ Spring	Summer

## **CATALOG DESCRIPTION and IAI NUMBER (if applicable):**

This course is a continuation of MET 1204. Students will further develop their understanding of press tool processes. Emphasis in this course shifts from simple secondary type tooling to more complex progressive dies. Students will help design and build a working progressive die.

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#### **ACCREDITATION STATEMENTS AND COURSE NOTES:**

None

## **COURSE TOPICS AND CONTENT REQUIREMENTS:**

- 1.0 Strip Layout, Material Utilization
- 2.0 Feed Progression
- 3.0 Die Design
- 4.0 Feeds
- 5.0 Power Presses
- 6.0 Die Construction
- 7.0 Tool Steels

Lab - Advanced Topics in Lathe Operations, Milling Machine Operations

#### **INSTRUCTIONAL METHODS:**

Lecture

Demonstration

Hands on Lab

## **EVALUATION OF STUDENT ACHIEVEMENT:**

Quizzes

**Tests** 

Comprehensive Final

Lab projects

## **INSTRUCTIONAL MATERIALS:**

#### **Textbooks**

Industrial Press Inc., Die Design Fundamentals, Third Edition, by Boljanovic and Paquin

## Resources

PowerPoint slides

#### **LEARNING OUTCOMES AND GOALS:**

1) Communication – to communicate effectively.

Institutional	Learning	Outcomes
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$\boxtimes$ 2	2)	Inquiry - to apply critical,	logical,	creative,	aesthetic,	or quantitative	analytical
		reasoning to formulate a	judgem	ent or cor	nclusion.		

3) Social Consci	ousness – to	understand	what it	means t	o be a	socially	conscious
person, locally	y and globall	y.;					

person, locally and give	boany.,		
4) Responsibility – to rec	ognize how personal	I choices affect self	and society.

## **Course Outcomes and Competencies**

- 1. Furthering knowledge of the intricacies of punch press dies in the field of metal stamping.
- 2. Understanding the pros and cons of progressive tooling as opposed to secondary operations of punch press dies.
- 3. To provide more in depth hands-on opportunities in areas of die making and pertaining to design, tolerances, fits, construction sequences, and die assembly.