

## COURSE OUTLINE: MCH259 - MACH. SHOP PRACT III

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Approved: Corey Meunier, Chair, Technology and Skilled Trades

Course Code: Title	MCH259: MACHINE SHOP PRACTICAL III		
Program Number: Name	4039: MECH. ENG. TN-MANUFA		
Department:	MECHANICAL TECHNIQUES PS		
Semesters/Terms:	18F		
Course Description:	This course will continue to build on the study of shop machines, with emphasis on the use of milling machines.		
Total Credits:	3		
Hours/Week:	3		
Total Hours:	45		
Prerequisites:	MCH121, MCH144, MCH145		
Corequisites:	There are no co-requisites for this course.		
Substitutes:	MCH223		
Essential Employability Skills (EES) addressed in this course:	EES 2 Respond to written, spoken, or visual messages in a manner that ensures effective communication.  EES 4 Apply a systematic approach to solve problems.  EES 5 Use a variety of thinking skills to anticipate and solve problems.  EES 6 Locate, select, organize, and document information using appropriate technology and information systems.  EES 7 Analyze, evaluate, and apply relevant information from a variety of sources.  EES 8 Show respect for the diverse opinions, values, belief systems, and contributions of others.  EES 9 Interact with others in groups or teams that contribute to effective working relationships and the achievement of goals.  EES 10 Manage the use of time and other resources to complete projects.  EES 11 Take responsibility for ones own actions, decisions, and consequences.		
Course Evaluation:	Passing Grade: 50%, D		
Other Course Evaluation & Assessment Requirements:	Grade Definition Grade Point Equivalent A+ 90 - 100% 4.00 A 80 - 89% B 70 - 79% 3.00 C 60 - 69% 2.00 D 50 - 59% 1.00 F (Fail) 49% and below 0.00  CR (Credit) Credit for diploma requirements has been awarded. S Satisfactory achievement in field /clinical placement or non-graded subject area.		

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U Unsatisfactory achievement in field/clinical placement or non-graded subject area. X A temporary grade limited to situations with extenuating circumstances giving a student additional time to complete the requirements for a course. NR Grade not reported to Registrar's office. W Student has withdrawn from the course without academic penalty. **Books and Required** Machining Fundamentals by Walker Dixon Resources: Publisher: Goodheart-Willcox Edition: 9th ISBN: 978-1-61960-209-0 Course Outcomes and Course Outcome 1 **Learning Objectives for Course Outcome 1** Learning Objectives: 1. Upon successful 1.1 Identify and correct any shop safety hazards completion of this course. 1.2 Practice equipment lock-out procedures the student will demonstrate 1.3 Identify and apply WHMIS labels where needed the ability to follow and 1.4 Identify and correct other safety issues that arise apply all shop safety rules **Course Outcome 2** Learning Objectives for Course Outcome 2 2. Upon successful completion of this course, 2.1 Safely operate all milling machines the student will demonstrate |2.2 Safely operate all lathes 2.3 Safely operate horizontal grinder the ability to set up and 2.4 Safely operate all drilling machines operate all machines used 2.5 Safely assemble the complete project in the shop: **Course Outcome 3** Learning Objectives for Course Outcome 3 3. Upon successful completion of this course, 3.1 Form student work groups that simulate the work the student will demonstrate environment in an actual shop the ability to Design. 3.2 Develop a project that can be built in the shop develop, draw and make 3.3 Produce detailed drawings for each component group projects using 3.4 Produce complete assembly drawing machine tools, equipment 3.5 Build the project using resources available following safe shop practices: **Course Outcome 4 Learning Objectives for Course Outcome 4** 4. Upon successful completion of this course. 4.1 Comprise bill of Material for the project. the student will demonstrate 4.2 Estimate total cost of the project. the ability to Plan, Cost and 4.3 Plan which Machines will be required for each component Estimate Time 4.4 Estimate machining time for each component Management. **Evaluation Process and Grading System:** 

Evaluation Type	<b>Evaluation Weight</b>	Course Outcome Assessed
Assembled Project	30%	
Project components	70%	

Date:

August 28, 2018

Please refer to the course outline addendum on the Learning Management System for further



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