WASHTENAW COMMUNITY COLLEGE COURSE SYLLABUS

Department: MACHINE TOOL TECHNOLOGY New Course				
Course Number: MTT 274		Ľ		
	Existing Course			
Course Title: CoOp Education II Machine Tool Technology				
Credit Hours: Varies				
Prerequisites: Consent of instructor and MTT 174	NO.			
Corequisites: MTT 174 can be a prerequisite or a corequisi	te	iningenesia kalis		
Catalog Course Description: In this course, the student	gains skills fi	com		
a new experience in an approved, compensated, industry-relat	ed position.	ionginggolomes.		
Together with the instructor, the employer and CoOp Placemen		 tudent		
determines work assignments and learning objectives to conne	***********************	*********		
with career-related work experience. This is the second of	two Coop nower	<u>irni</u> ng		
The Second of	cwo coup courses	· .		
Contact Hours per week in a lecture/recitation setting				
Contact Hours per week in a laboratory setting		Residence		
Contact Hours per week in a clinical setting				
Contact Hours per week in a work setting X 8-24 (variable)				
Total Contact Hours (per semester):VARIES Minimum 120 hrs	- 1 credit			
Course Justification: (Check all that apply.) 240 hrs - 2 credits 360 hrs - 3 credits				
X program specialty College transfer Su	pport course			
division core industry training pe	rsonal development			
core curriculum				
Prepared By Date_				
(Faculty Member)	Mediaterinin nees kitalian ja suututa ka kaasti kiesen on tentra ja	**************************************		
Reviewed By GEORGE AGIN Date (Department Chair for Department)	8/29/94	1000000000		
	0//			
Approved By Date Date	8/21/9/	www.companies		

Course	Number
AND PROPERTY OF	4 7 BREEFERFE

MTT 274

COURSE OBJECTIVES: Use student outcome based language and format. (Example: The student will define and state the cause of the six major respiratory diseases.) List as many as needed.

Objective #1. Student will complete with instructor, placement office, and employer the
following forms: student eligibility form, student agreement, work agreement, student
learning objectives/assignments, student evaluation, and student self-assessment report or
CO-OP experience.
Objective #2. Student will complete the CO-OP work experience according to
guidelines.
Objective #3. Student will maintain a weekly log of duties.
Objective #4. Student will meet with faculty advisor at times individually arranged at
the beginning of the work assignment.
XARA DI JABARRA DI LA BARRA DI
Objective #5. Student will complete a final report on the CO-OP experience including
the following: description of the assignment, summary of skills and abilities used on the
job, ways in which course work was integrated into job tasks, and assessment of how
well the objectives established at the beginning of the assignment were achieved.

MAJOR INSTRUCTIONAL UNITS: (List as many as needed)

15

1.	Complete all required forms.
2.	CO-OP work experience.
3.	Maintain weekly log of duties.
4.	Meet with faculty advisor.
5.	Complete a final report.
INST	RUCTIONAL METHODS:
1.	On-site work experience.
2.	Conferences with advising instructor

SUGGESTED EVALUATION CRITERIA: (which may be appropriate to grade student.) Class Attendance _____ : Quizzes _____ Class Discussion _____ Tests ____ Papers _____ Midterm Portfolio _____ Final Exam Project Work Log Independent Study Reports ____ Homework _____ Clinical/Work Performance ATTENDANCE REQUIREMENTS: (For Certification or nonevaluative purposes.) SPECIAL EQUIPMENT/FACILITY AND RESOURCES REQUIREMENTS: (Check the appropriate boxes and describe as needed.) Lab Equipment _____ Testing in Testing Center _____ LRC Reserves Student Regional Competitions Computers Off Campus Sites Work Site Field Trips Other _____ (Attach an additional page is necessary.) The second of the second of PRIMARY TEXT: (Specify if text is not used.) 1. Title: NONE Author: _____ Copyright Yr: ____ Publisher: _____ Est. Cost: ____ (Attach an additional page if more than one primary text is used.)

Course Number

MTT 274

Course Number MTT 274

RECOMMENDED SUPPLEMENTA	L TEXTS or COURSE PACKS:
1. Title: NONE	
Author:	Copyright Yr:
Publisher:	Est. Cost:
2. Title:	
Author:	Copyright Yr:
	Est. Cost:
(Attach an additional page if necessary	
SUPPLIES, other than pen, pencil, p OR ACQUIRE FOR COURSE, SUC	paper, or textbooks, STUDENT WILL HAVE TO OWN HAS: calculators, uniforms, tools, and software, etc.
Description	Cost Estimate
This will depend on the student's work	k placement.
oooks, manuais, maps, etc.	ENTS MAY BE REFERRED TO SUCH, AS: journals,
This will depend on the student's world	k placement.
ATTIDIO/METTAT AND COMPUTE	D READURATO ATTAIN AND THE TOTAL THE
films, video tapes, slides, audio tapes,	R MATERIALS AVAILABLE FOR USE SUCH AS: software, etc.
<u>Title</u>	Source

MTT 274

WASHTENAW COMMUNITY COLLEGE COURSE HANDOUTS

The following information compatible with the Official Course Syllabus must be distributed to students at the first meeting of each course:

- 1. Course name:
- 2. <u>Course number</u>:
- 3. <u>Course description</u>:
- 4. Course objectives:
- 5. Required text(s) and/or supplies:
- 6. Criteria for evaluation:
- 7. Requirements (Attendance, Special, or Other):
- 8. Hours/week required out of class:
- 9. Additional information:
- 10. A tentative schedule by week or class meeting of topics to be covered:

Each Instructor may design his/her own course handout within these guidelines.

COURSE SUMMARY

COURSE TITLE: co-op Education II

COURSE NUMBER: MTT 274

CREDITS: Varies: 1 to 3

PREREQUISITE: MTT 174; MTT 174 can also be a corequisite.

DESCRIPTION:

In this course the student gains from a new experience in an approved, compensated, industry-related position. Together with the instructor, the employer, and the CO-OP placement office, the student determines work assignments and learning objectives to connect classroom learning with career-related work experience. This is the second of two CO-OP courses.

COURSE OBJECTIVES:

During this course, the student will:

- Complete with instructor, placement office, and employer the following forms: student eligibility form, student agreement, work agreement, student learning objectives/assignments, student evaluation, and student self-assessment report on CO-OP experience.
- Complete the CO-OP work experience according to guidelines.
- 3. Maintain a weekly log of duties.
- Meet with instructor according to individually determined schedule.
- 5. Complete a final report on the CO-OP experience including the following: description of the assignment, summary of skills and abilities used on the job, ways in which course work was integrated into job tasks, and assessment of how well the objectives established at the beginning of the assignment were achieved.



MTT 203: Machine Tool Operations and Set-Up II 4 Credits

Prerequsites: MTT 202 Corequisites: None

45 lecture, 45 lab, 0 clinical, 0 other, 90 total contact hours

Fulfills Core Elements: None

This course is a continuation of MTT 202. The study of materials will be more advanced along with the techniques of measurement and blueprint reading. The technology of metal cutting, dimensional metrology, and special processes will also be introduced. The student's "hands-on" experience will include multiple lead threading, external grinding, E.D.M. machining, using the C.M.M., and producing a helical gear. Students who have experience equivalent to MTT 202 may contact the instructor for permission to waive the pre-requisite.

MTT 210: Machine Tool Technology 4 Credits

Prerequsites: MTT 203
Corequisites: None

45 lecture, 45 lab, 0 clinical, 0 other, 90 total contact hours

Fulfills Core Elements: None

This course is a continuation of MTT 203. It is also the last and most advanced machine tool technology course. Therefore, the most advanced information on materials, blueprint reading, measurement, metal cutting technology, and special processes will be covered. Along with that, the student will prepare a resume that will include his/her newly acquired proficiencies and well thought-out goals. The student's "hands-on" experience will include acme threading, internal grinding, E.D.M. machining, using the C.M.M., and producing a pair of bevel gears. This course was previously MTT 201. Students who have experience equivalent to MTT 203 may contact the instructor for permission to waive the pre-requisite.

MTT 274: MTT Co-op Education JL 1-3 Credits

Prerequsites: MTT 174 and Consent required

Corequisites: None

0 lecture, 0 lab, 0 clinical, 120 other, 120 total contact hours

Fulfills Core Elements: None

Students are placed in an approved work experience to gain skills and knowledge offered by the employer. Together with the instructor and the employer, students set up work assignments and learning objectives to connect classroom learning with career-related work experiences.

Mathematics MTH

MTH 010: Arithmetic 3 Credits

Prerequsites: None

45 lecture, 0 lab, 0 clinical, 0 other, 45 total contact hours

Fulfills Core Elements: None

This course is for students having difficulty with arithmetic. Topics include whole numbers, common fractions, decimal fractions, percents, and applications of arithmetic. Hand calculations are emphasized, however, work with calculators and computers is included. The course is offered only in an individualized format using a Satisfactory/Unsatisfactory grading system. This course may not be repeated for additional credit. Students are required to supply their own handheld calculators.

MTH 011: Solving Equations 3 Credits

Prerequiites: None

45 lecture, 0 lab, 0 clinical, 0 other, 45 total contact hours

Fulfills Core Elements: None

This course is for students having difficulty solving mathematical equations. Topics include: properties of real numbers, signed numbers, simplifying algebraic expressions, and solving simple equations. Work with computers is used to enhance the understanding of these concepts. The course is offered only in an individualized format using a Satisfactory/Unsatisfactory grading system. This course may not be repeated for additional credit. Students are required to supply their own handheld calculators.