

(1) MFGT 91

CREDIT COURSE OUTLINE

I. COVER PAGE

(3) 2

(2) Motor Control 1

Nun	nber			Ti	tle			Units	
(4)	Lecture / Lab Hou	ırs:			(8)Class	sification:			
	Course Hours								
		Weekly Lec hours:		1.50			Degr	ee applicable:	X
		Weekly Lab hours:		1.50			Non-	degree applicable:	
		Total Contact hours:		54.00			Basic	e skills:	
		hour(s) outside work. hour(s) outside work.			(9)RC	Fulfills AS/AA	degi	ree requirement: (area)	
H	Lao will generate	nour(s) outside work.				General educat	ion c	ategory:	
(5)	Grading Basis:	Grading Scale Only				Major:			
(-)	3 - 11 - 12 - 12 - 12 - 12 - 12 - 12 - 1	Pass/No Pass option	X			Certificate of:			
		Pass/No Pass only				Certificate in:			
(6)	Advisories:	'							
(7)		quires C grade or better):			(10)CSU			alaureate:	X
	Mfgt 23 Corequisites:					eatable: (A cou	rse m	ay be repeated	0
	Corequisites.								, ,
					(12)C-II	D:			
					` /	d Start Date:			Fall 2012
(12 The) Catalog Descripti e study of basic ind	ion: lustrial motors and motor	control for co	ommer	cial/man	ufacturing use.		•	

II. COURSE OUTCOMES:

(Specify the learning skills the student demonstrates through completing the course and link critical thinking skills to specific course content and objectives.)

Upon completion of this course, students will be able to:

- I. Identify electric motor and control systems within a manufacturing environment.
- II. Diagnose electric power transmission problems in a manufacturing environment.

III. COURSE OBJECTIVES:

(Specify major objectives in terms of the observable knowledge and/or skills to be attained.)

In the process of completing this course, students will:

- I. Identify the basic components of a motor control system.
- II. Apply motor control principles to the operation of systems in manufacturing facilities.
- III. Practice safe maintenance and repair of industrial motor control systems.
- IV. Use mathematical formulas and basic physics princples to coordinate industrial electrical motors and control systems.

IV. COURSE OUTLINE:

Lecture Content:

- 1. Motor Fundamentals
- A. Defiinitions
- B. Basic Principles
- 2. Motor Operation and Characteristics
- A. Starting Methods and Characteristics
- B. Running Characteristics
- C. Stopping Methods and Characteristics
- 3. Motor Faults
- 4. Electrical Definitions
- A. Voltage
- B. Current

- C. Resistance
 D. Impedance
 5. Motor Types
 A. Single Phase
 B. Three Phase
- 6. Motor Starters

Lab Content:

- 1. Motor Fundamentals
- 2. Motor Operation and Characteristics
- 3. Motor Faults
- 4. Electrical Definitions
- 5. Motor Types
- 6. Motor Starters

V. APPROPRIATE READINGS

Reading assignments may include but are not limited to the following:

- I. Sample Text Title:
 - and/or
 - 1. Recommended Rockis, G., Mazor, G. *Electrical Motor Controls for Intergrated Systems*, ed. 5 American Technical Publishers, Orland Park, 2012,
- II. Other Readings

 Global or international materials or concepts are appropriately included in this cours
Multicultural materials and concepts are appropriately included in this course

If either line is checked, write a paragraph indicating specifically how global/international and/or multicultural materials and concepts relate to content outline and/or readings.

VI. METHODS TO MEASURE STUDENT ACHIEVEMENT AND DETERMINE GRADES:

Students in this course will be graded in at least one of the following four categories. Please check those appropriate. A degree applicable course must have a minimum of one response in category A, B, or C.

A. W	A. Writing			
	Check either 1 or 2 below			
	1. Substantial writing assignments are required. Check the appropriate boxes below and provide a written description in the space provided.			
X	2. Substantial writing assignments are NOT required. If this box is checked leave this section blank. For degree applicable courses you must complete category B and/or C.			
	a) essay exam(s) d) written homework			
	b) term or other paper(s)		e) reading reports	
	c) laboratory report(s)		f) other (specify)	

Required assignments may include but are not limited to the following:

	oblem Solving putational or non-computational problem-s	solving	demonstrations, including:
X	a) exam(s)	X	d) laboratory reports
X	b) quizzes	X	e) field work
X	c) homework problems		f) other (specify):

Required assignments may include but are not limited to the following:

Motor Diagnostics Reports

Lader logic Diagrams

C. Skill demonstrations, including:			
X	a) class performance(s)	X	c) performance exams(s)

X	b) field work	d) other (specify)	
Requ	ired assignments may include but are not l		
Troul	ect use of VOM meters. ble shooting electrical circuits. ify dangerous electrical conditions.		
D. C	Objective examinations including:		
X	a) multiple choice	d) completion	
X	b) true/false	e) other (specify):	
X	c) matching items		
COU	RSE GRADE DETERMINATION:		
metho instru	ods fall within the following departmental gr	uidelines; however, the final method	dation of the department that the instructor's grading of grading is still at the discretion of the individual de has been determined. (A minimum of five (5)
	reral methods to measure student achievement final grades.	nt are used, indicate here the approximation	imate weight or percentage each has in determining
Lab V	e Work 25% Vork 25% ves 25%		
1 IIIGI	2370	VII. EDUCATIONAL MATERIALS	
	egree applicable courses, the adopted texts, in college-level materials.	as listed in the college bookstore, or i	instructor-prepared materials have been certified to
Textl Refe	ation Language Level (check where applica book rence materials uctor-prepared materials o-visual materials	ole):	College-Level Criteria Met YES NO X X X X X
	ate Method of evaluation: Used readability formulae (grade level 10 of Text is used in a college-level course Used grading provided by publisher Other: (please explain; relate to Skills Level	<u>X</u>	
Conte	outation Level (Eligible for MATH 101 leve ent dth of ideas covered clearly meets college-le		X
Prese Requ Requ	entation of content and/or exercises/projects tires a variety of problem-solving strategies tires independent thought and study	including inductive and deductive rea	easoning. X X
List o	ies transferring knowledge and skills approp of Reading/Educational Materials mmended - Rockis, G., Mazor, G. <i>Electrical</i> 2012,		tems, ed. 5 American Technical Publishers, Orland
Comi	ments:		
X	This course requires special or addi This course requires special facilitie Manufacturing Electrical Lab.	tional library materials (list attached) es:).

Attached Files:

Manufacturing Pathways

	and are those needed for eligibility for English 125, 126, and Math 201. These
needed at the beginning of the target course and check	2, and Math 250. In the right hand column, list at least three major basic skills
Eligibility for ENGL 126	off the corresponding basic skins fisted at the left.
(as outcomes for ENGL 262)	
X apply a variety of vocabulary skills for	X Identify the basic components of a motor control system.
increased comprehension during reading.	X Apply motor control principles to the operation of systems in
X apply prereading and active reading	manufacturing facilities.
strategies to increase success with and	X Practice safe maintenance and repair of industrial motor control
comprehension of unfamiliar texts.	systems.
X analyze expository texts to determine explicit/implicit main ideas and logical	Use mathematical formulas and basic physics princples to
support, leading to author's intended	coordinate industrial electrical motors and control systems.
meaning.	
determine basic organizational writing	
pattens to increase comprehension of	
expository texts.	
distinguish between fact and opinion and	
determine author's tone and purpose in non-fiction writings.	
Check the appropriate spaces.	
Eligibility for Math 201 is advisory for the ta	rget course.
X Eligibility for English 126 is advisory for the	target course.
Eligibility for English 125 is advisory for the	target course.
	ies in Basic Skills are all that are necessary for success in the target course, stop
here, provide the required signatures, and forward this curriculum committee.	is form to the department chair, the appropriate associate dean, and the
curriculum committee.	
REQUISITES	
Prerequisite MFGT 23 Electricity	ork anvironment
Prerequisite MFGT 23 Electricity • Integrate electric knowledge into a positive w	ork environment.
Prerequisite MFGT 23 Electricity	afe shop techniques
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JUSTIFICATION OF LIMITATION ON ENROLLMENT

Enrollment in courses or blocks of courses may be limited based on performance, honors, or other performance based criteria. Be mindful of the disproportionate impact the limitation will have on specific groups of students. It is important to determine if the limitation will disproportionately keep under-represented students from enrolling in the course or block of courses.

Describe the reasons for limiting the enrollment.

Course Designator: MFGT 91
Course Title(s): Motor Control 1
Rationale for Limiting Enrollment: