MESABI RANGE COLLEGE

Course Outline

Course Title: Introduction Semester Course Prefix and Old Quarter Course Prefix an	Number:	Control ECM 1275		Submitted By: Approval Date: Revision Date:	Robert Stevens 9/6/16
Number of Credits: Semester(s) Offered: Class Size: Negotiated by AASC on: (date)	Spr Numb	per of Lecture Crepter of Lab Credits per of Studio/Den	s: 1	l Number of Lab H on/Internship Cre	
Course Purpose Code: 0 - Developmental Code: 1 - Non-transferable 2 - Technical course reconsers whith the college course whith the college course education) 5 - Course which is intended for transferable the college course education intended for transferable process.	elated to caree ch has the pri se not conside ended to fulfill er.	imary goal of apply ered a part of MNT I the Minnesota Tr	C (e.g. co	omputer science, hurriculum (MNTC)	nealth, physical requirements or
Catalog Description: The course is a "Hybrid" or "B class lectures and hands-on la face-to-face work. This course definitions, types of control, sy design. The course will identify is a prerequisite to additional in	ab work which is an introduc mbols and pri y the duties ar	also includes We ction to industrial μ ints, instruments υ nd tasks performe	b-based le process coused in coustruction d by instru	earning activities to ontrol. The course ontrol, and elementumentation technic	to complement e will cover basic tary control loop
Reading Prerequisite: N Composition Prerequisite: N	CM 1253, EC one one one er Majors Acc ance Diploma	M 1233, ECM 124	3, ECM 1	1295, ECM 1244	
Minnesota Transfer Curriculu (Notes: No more than two goal Officer's approval are required. 0. x None 1. Communications 2. Critical Thinking 3. Natural Sciences 4. Mathematical/Logica 5. History and the Social	s may be met) I Reasoning	by any one cours		The Humanities Human Diversit Global Perspec	s and Fine Arts ty tives ic Responsibility

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Learning Outcomes: (including any relevant competencies listed in the Minnesota Transfer Curriculum)

Upon completion of this course, the student will be able to:

Identify safe work rules and procedures.

Define process control terms used in process control

Identify the function, purpose and location of different instruments in a control loop.

Install, wire and calibrate instruments in indicator loops.

Describe controller functions and parameters

Identify symbols and diagramming of P&ID prints

Student Assessment Methods:

Assessment made of lab assignments, worksheets, and papers using rubrics and check lists. Tests and quizzes of technical knowledge to be given at regular intervals during semester.

<u>Use of Instructional Technology</u>: (includes software, interactive video and other instructional technologies):

ECM Laptop Computer Lease with Industrial Software

Additional Special Information: (special fees, directives on hazardous materials, etc.)

Laptop Computer Lease and Required Tool List

<u>Transfer Information</u>: (Please list colleges/majors that accept this course in transfer.)

None

Affiliated Mesabi Range College Courses and Programs:

Approvals:

Body	Representative Signatures	Date
Faculty Association		
Academic Affairs Standards Committee		
Chief Academic Officer		

Distribution: Original – Instructional Services

Copies: Transfer Specialist, Originating Faculty Member, Records

Revised: December 2012

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