MESABI RANGE COMMUNITY & TECHNICAL COLLEGE - VIRGINIA/EVELETH

Course Outline

Course Title: Process (Control for Operators	Submitted By:	Scott Norcia Bob Stevens
Semester Course Prefix a Old Quarter Course Prefix		Approval Date: Revision Date:	Keith Mattson March 29, 2007
Number of Credits: Semester(s) Offered: Class Size: Negotiated by AASC on (date)		e Credits: 3 edits: 1 Number of Lab Hour Demonstration/Internship Cr	
X 2 – Technical course 3 – College course 4 – Other college course science, health, 5 – Course which is 9 – Continuing Edu Catalog Description: This course provides an overcontrol configurations, equip general overview of control components, process paran	Courses e, General Education se related to career programs which has the primary goal of a purse not considered a part of g physical education sintended to fulfill the Minnesot cation/Customized Training specerview of the system and proce- perview of the system an	general education (MNTC) e.g. ta Transfer Curriculum (MNTC) ecialized credit course (not occurs controls. The course outline rol strategies. Included in the cibration, radioactive safety, instor interface and system trouble	computer requirements. curring in 0-5) s common system coursework is a trumentation
Course Prerequisite(s): Reading Prerequisite: Composition Prerequisite: Mathematics Prerequisite: Career Programs and Trail Industrial Technology – min Minnesota Transfer Curric	culum Goal(s) partially met by by any one course. (Curriculur	cerators Course: y this course if applicable: N	
 0. X None 1. Communications 2. Critical Thinking 3. Natural Sciences 4. Mathematical/Log 	gical Reasoning	7. Human Divers 8. Global Perspe	ctives vic Responsibility

5.	 History	and the	Social	and	Behaviora	I Science
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Learning outcomes, including any relevant competencies listed in the Minnesota Transfer Curriculum:

Following the completion of this course the student will be able to:

- demonstrate logical troubleshooting skills.
- demonstrate understanding of radioactive safety.
- analyze the relationship between operator action and systems reaction.
- analyze what operators are controlling and why.
- demonstrate safe work practices.
- demonstrate the relationship between control system stability and product quality.
- identify primary measurement devices related to precise control.
- identify final control devices related to process control.
- analyze closed loop control.

Student assessment methods:

Lab assignments, worksheets, papers, and tests.

Use of instructional technology (includes software, interactive video and other instructional technologies):

Power Point Software, videos, software-based lab simulators

Lecture covers theory and terminology

Lab: scheduled lab, lab by arrangement, and/or on-the-job-training/internships

Outline of the major course content:

See catalog description – course must also include:

• Diamond drill to mine sampling to production

Additional special information (special fees, directives on hazardous materials, etc.)

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

Approvals:

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

Distribution: Original - Administrative Office

Copies: Curriculum Committee Chair, Learning Center, Library, Originating Faculty Member, Records, Student Services, Scheduler,

Transfer Specialist

Revised February 10, 2004