

MESABI RANGE COMMUNITY & TECHNICAL COLLEGE

Course Outline

Course Title:	Advanced Blueprint Reading	Submitted By:	Waldorf, Parker, Hill
Semester Course Prefix and Number:	IMT 2242	Approval Date:	
Old Quarter Course Prefix and Number:		Revision Date:	11-30-11
Number of Credits:	3	Number of Lecture Credits:	1
Semester(s) Offered:		Number of Lab Credits:	2
Class Size:	35	Number of Lab Hours:	
Class Size:	35	Number of Studio/Demonstration/Internship Credits:	
Negotiated by AASC on:			
(date)			

Course Purpose Code:

- 0 – Developmental Courses
- 1 – Non-transferable, General Education
- 2 – Technical course related to career programs
- 3 – College course which has the primary goal of applying certain concepts (e.g. vocal ensemble)
- 4 – Other college course not considered a part of general education (MNTC) (e.g. computer science, health, physical education)
- 5 – Course which is intended to fulfill the Minnesota Transfer Curriculum (MNTC) requirements or intended for transfer.
- 9 – Continuing Education/Customized Training specialized credit course (not occurring in 0-5)

Catalog Description:

This course will acquaint the student with advanced drawing of equipment and machinery from and as used in industry.

Prerequisites and/or recommended entry skills/knowledge:

Course Prerequisite(s): IMT 1241, IMT 1242

Reading Prerequisite:

Composition Prerequisite:

Mathematics Prerequisite:

Career Programs and Transfer Majors Accessing this Course:

Minnesota Transfer Curriculum Goal(s) partially met by this course if applicable:

(Notes: No more than two goals may be met by any one course. Curriculum Committee review and the Chief Academic Officer's approval are required.)

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| 0. <input checked="" type="checkbox"/> None | 6. <input type="checkbox"/> The Humanities and Fine Arts |
| 1. <input type="checkbox"/> Communications | 7. <input type="checkbox"/> Human Diversity |
| 2. <input type="checkbox"/> Critical Thinking | 8. <input type="checkbox"/> Global Perspectives |
| 3. <input type="checkbox"/> Natural Sciences | 9. <input type="checkbox"/> Ethical and Civic Responsibility |
| 4. <input type="checkbox"/> Mathematical/Logical Reasoning | 10. <input type="checkbox"/> People and the Environment |
| 5. <input type="checkbox"/> History and the Social and Behavioral Sciences | |

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

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

- Explain and perform necessary math functions
- **Understand and exhibit competence in Drafting and Print Reading Procedures including:**
 - Prints: The Language of Industry
 - Reading and Steel Rule
 - Applied Mathematics
 - Measurement Tools
 - The Alphabet of Lines
 - Basic Technical Sketching, Lettering, and Dimensioning
- **Understand and exhibit competence in Fundamentals of Size Descriptions:**
 - Dimensioning
 - Tolerancing
 - Machining Specifications and Surface Quality
 - Geometric Dimensioning and Tolerancing

Student Assessment Methods:

Tests

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

Videos

Approvals:

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

Distribution: Original – Administrative Office

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

Revised: