

MESABI RANGE COMMUNITY & TECHNICAL COLLEGE – VIRGINIA/EVELETH

Course Outline

Course Title: Engineering Physics Lab I Submitted By: Jason Slattery
Semester Course Prefix and Number: PHYS 1581 Approval Date:
Old Quarter Course Prefix and Number: PHYS 611 & 612 Revision Date: April 2011

Number of Credits: 1 Number of Lecture Credits:
Semester(s) Offered: Number of Lab Credits: 1 Number of Lab Hours: 2
Class Size: 24/Lab Number of Studio/Demonstration/Internship Credits:

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.
- 9 – Continuing Education/Customized Training specialized credit course (not occurring in 0-5)

Catalog Description:

Engineering Physics I Lab - required as part of Engineering Physics I.

Prerequisites and/or recommended entry skills/knowledge:

Course Prerequisite(s): None
Reading Prerequisite: None
Composition Prerequisite: None
Mathematics Prerequisite: None

Career Programs and Transfer Majors Accessing this Course:

Pre-Engineering, Physics, Pre-Medicine, Pre-Dental

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).

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

Learning outcomes, including any relevant competencies listed in the Minnesota Transfer Curriculum:

Selected experiments to show the basics for the theories introduced in Engineering Physics I. See the course outline from PHYS 1571.

Student assessment methods:

Written lab reports that include purpose of the lab, diagram of setups, procedure, results, and conclusion.

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

Graphing using Excel.

Outline of the major course content:

See course outline for PHYS 1571.

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

Engineering Physics Lab I (1 lab; 1 credit) is required with PHYS 1571 Engineering Physics.

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

Approvals:

Body	Representative Signatures	Date
Curriculum Committee		
Faculty Association		
Meet and Confer		
Chief Academic Officer		

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