

North Hennepin Community College

ENGR 2303: Dynamics

A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: *.*

Lab Hours/Week: *.*

OJT Hours/Week: *.*

Prerequisites:

This course requires both of these prerequisite categories

1. ENGR 2301 - Statics

And

2. Any one of these five groups

1. MATH 1222 - Calculus II (Minimum grade: 1.67 GPA Equivalent)

Or

2. MATH 2010 - Probability and Statistics (Minimum grade: 1.67 GPA Equivalent)

Or

3. MATH 2220 - Calculus III (Minimum grade: 1.67 GPA Equivalent)

Or

4. MATH 2300 - Linear Algebra (Minimum grade: 1.67 GPA Equivalent)

Or

5. Both of these

MATH 2400 - Differential Equations (Minimum grade: 1.67 GPA Equivalent)

PHYS 1601 - General Physics I

Corequisites: None

MnTC Goals: None

This course is designed for people interested in mechanical, civil, industrial, and aerospace engineering. The topics include: particle kinematics, particle kinetics, Newton's Second Law, rotation of rigid bodies, and energy momentum methods.

Prerequisite: Math 1222, Physics 1601 and Engr 2301

B. COURSE EFFECTIVE DATES: 08/26/2002 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Academic Content: Topics covered: particle kinematics, particle kinetics, Newton's Second Law, rotation of rigid bodies, energy and momentum methods.

D. LEARNING OUTCOMES (General)

1. Course Outcomes: An understanding of the principles of dynamics and an ability to solve problems involving these principles.

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted