

# North Hennepin Community College

## ENGR 2301: Statics

### A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 0

Lab Hours/Week: 0

OJT Hours/Week: \*.\*

Prerequisites:

This course requires both of these prerequisite categories

1. PHYS 1601 - General Physics I

And

2. MATH 1221 - Calculus I (Minimum grade: 1.67 GPA Equivalent)

Corequisites: None

MnTC Goals: None

This course is designed for people interested in mechanical, civil, industrial, and aerospace engineering. It is also intended for the Bachelor of Construction Management degree. The topics include: vector algebra, equilibrium of a particle, equivalent systems of forces, equilibrium of rigid bodies, distributed forces, friction, centroids, and center of mass. Prerequisite: Math 1221 and Physics 1601

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

### C. OUTLINE OF MAJOR CONTENT AREAS

1. Topics covered include: vector algebra, equilibrium of a particle, equivalent systems of forces, equilibrium of rigid bodies, distributed forces, friction, centroids, center of mass.

### D. LEARNING OUTCOMES (General)

1. An understanding of the principles of statics 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