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Course instructor: UW-Stevens Point at Wausau
Engineering Professor Mark Holdhusen

Fall 2024

**ENGR 105 - Engineering
Fundamentals**

**ENGR 222 - Mechanics of
Materials**

Spring 2025

**ENGR 107 - Engineering
Graphics with CAD**

ENGR 220 - Statics

ENGR 221 - Dynamics



Department of Physics and Astronomy
College of Letters and Science
University of Wisconsin-Stevens Point

CONTACT US

Mark Holdhusen

Department of Physics and Astronomy
2001 Fourth Avenue
Stevens Point, WI 54481
715-346-2120
physastr@uwsp.edu

Course Descriptions and Prerequisites

Fall 2024

ENGR 105 - Engineering Fundamentals

Description: Designed to equip engineering students with the necessary tools and background information to prepare them to be successful engineering students as well as a successful practicing engineer. Topics include project management, teamwork, technical writing, working with data and using spreadsheets, creating presentations, engineering design, and a thorough understanding of the engineering profession. (3 credits)

Prerequisite: MATH 95 (Intermediate Algebra) or concurrent registration, or UW System Math Placement Score placing into college credit-bearing mathematics

ENGR 222- Mechanics of Materials

Description: Principles of mechanics, force systems, equilibrium, structures, distributed forces, moments of inertia of area, friction. For students in the pre-engineering curriculum. (4 credits)

Prerequisite: C or better in ENGR 220 (Statics)

Spring 2025

ENGR 107 - Engineering Graphics with CAD

Description: Engineering graphics focusing on graphical communication. Topics include descriptive geometry elements, visualization, engineering drawing techniques, orthographic projection, pictorial representation, auxiliary views, section views, and basic dimensioning. Incorporates computer aided drafting (CAD) with engineering applications using 2-D drawing and 3-D modeling techniques. (3 credits)

ENGR 220 - Statics

Description: Principles of mechanics, force systems, equilibrium, structures, distributed forces, moments of inertia of area, friction. For students in the pre-engineering curriculum. (3 credits)

Prerequisite: MATH 225 (Calculus I)

ENGR 221 - Dynamics

Description: Kinematics, force-mass-acceleration relationships, work and energy, impulse and momentum, moments of inertia of mass. For students in the pre-engineering curriculum. (3 credits)

Prerequisite: ENGR 220 (Statics) and MATH 226 (Calculus II)

