

Master Course Syllabus

Department: Engineering Technology

Course Prefix/Number: IT 106

Official Course Title: Power Transfer Technology

Master Syllabus Approved by Department on: 05 / 11 / 05
month date year

- I. Catalog Description: A study of power transfer mechanisms used in industrial machines including those used for obtaining mechanical advantage (gears, pulleys, inclined planes, and levers), pneumatics and hydraulics. The theory of operation and practical applications are stressed.
- II. Prerequisites: None
- III. Expanded Course Description: This is a course designed for freshman level students and will provide a foundation of knowledge about power transfer mechanisms and their applications.
- IV. Intended Student Learning Outcomes: Upon completion of the course, students will be able to:
 - A. Explain how pneumatics, hydraulics, levers, inclined planes, gears, and pulleys are used either singly or in combination with others to power industrial machines.
 - B. Use algebra and trigonometry to calculate the theoretical values for the various mechanisms.
 - C. Demonstrate the underlying theory and application of the various simple machines by completing laboratory exercises.
- V. Unless otherwise stipulated in this master syllabus by the department, the following items are subject to faculty discretion as described in each faculty member's individual course outline/syllabus:
 - a) Course Requirements? (grading/evaluation procedures; class attendance policy; term papers, projects, field assignments; examinations; class participation, etc.)
 - b) Required Text(s)?
 - b) Bibliography?
- VI. Academic Honesty: Cheating, plagiarism (submitting another person's materials or ideas as one's own), or doing work for another person who will receive academic credit are all-impermissible. This includes the use of unauthorized books, notebooks, or other sources in order to secure or give help during an examination, the unauthorized copying of examinations, assignments, reports, or term papers, or the presentation of unacknowledged material as if it were the student's own work.

Disciplinary action may be taken beyond the academic discipline administered by the faculty member who teaches the course in which the cheating took place.

- VII. Students With Disabilities Policy: It is the policy of Tarleton State University to comply with the Americans with Disabilities Act (ADA) and other federal, state, and local laws relative to the provision of disability services. Students with disabilities attending Tarleton State University may contact the Office of Disability Services at (254) 968-9478 to request appropriate accommodation. Furthermore, formal accommodation requests cannot be made until the student has been officially admitted to Tarleton State University.

Department Head Signature/Date:

Signature

_____/_____/_____
Date