

Master Course Syllabus

Department: Engineering Technology

Course Prefix/Number: IT 117

Official Course Title: Metals Technology

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

- I. Catalog Description: A study of metals and their machining characteristics and application. Emphasis is placed on layout, precision measurement, and heat treating. Laboratory experiences include work with sheet metal, metal casting, and metal lathe operation. Lab fee \$10.
- II. Prerequisites: none
- III. Expanded Course Description: This course is designed for freshmen as an introduction to metals processing and will explore the following topics: safety, drawings, tools, measurement, layout, cutting operations, turning operations, casting methods, sheet metal forming and other methods of processing ferrous and non-ferrous metals.
- IV. Intended Student Learning Outcomes: Upon completion of the course, students will be able to:
 1. Determine the processes required to manufacture a part based on the drawing and specifications.
 2. Perform the various mathematical calculations required for setting speeds and feeds.
 3. Understand the physical, chemical, and electrical hazards associated with metal processing.
 4. Read and interpret drawings to determine the operations required and the application of dimensions and tolerances.
 5. Use measuring instruments, both precision and non-precision, for measurement and layout.
 6. Perform required metal cutting, turning, casting and sheet metal forming operations to complete laboratory assignments.
- 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