

Master Course Syllabus

Department: Engineering Technology

Course Prefix/Number: IT 4953

Official Course Title: Engineering Technology Projects

Master Syllabus Approved by Department on: 08 / 10 / 04
month date year

I. Catalog Description: A capstone projects course emphasizing a team approach to the analysis and solutions of manufacturing problems. Projects will be supplied by industry whenever possible. Emphasizes scheduling, design, working in teams, final written report and presentation. Restricted to Engineering Technology majors.

II. Prerequisites: Senior standing.

III. Expanded Course Description: A course designed to give a final overview of the student's experience in Engineering Technology. Current topics in the area of Engineering Technology will be studied. Students will participate in the formation, organization, and management of teams to research a manufacturing problem and propose a solution to the problem. Project management, the design process, research techniques, and presentation techniques will be emphasized. Resume construction, interview techniques, and job search options are also discussed.

IV. Intended Student Learning Outcomes: Upon completion of the course, students will be able to:

1. Explain the importance of the initial design stages in product development and manufacture.
2. Explain the integration of the design and manufacturing process including concurrent engineering, design for manufacture, design for assembly, and material selection.
3. Explain the role of teams in the design and manufacturing process.
4. Integrate knowledge and skills developed in previous courses and apply those to solving manufacturing problems.
5. Explore various avenues for seeking manufacturing positions.

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