

Master Course Syllabus

Department: Engineering Technology

Course Prefix/Number: IT 324

Official Course Title: Thermoplastic Processing

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

I. Catalog Description: A study of thermoplastic materials and processes used in manufacturing. Emphasis will be placed on injection molding, extrusion, rotational casting, expansion processes, hot melt castings, and coatings. Also the impact of material selection on processing parameters will be stressed.

II. Prerequisites: None

III. Expanded Course Description: This is a course designed for junior level students and will provide a foundation of knowledge about thermoplastic polymers and manufacturing processes.

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

1. Identify the classification, properties, and uses of the major thermoplastic polymers.
2. Understand the theory and application of thermoforming, injection molding, extrusion, rotational casting, dip casting, hot melt casting, expansion processes, and coatings.
3. Understand the impact of various polymers on processing parameters.

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