

El Paso Community College

Syllabus

Part II

Official Course Description

SUBJECT AREA	<u>Advanced Technology Industrial</u> <u>Manufacturing</u>
COURSE RUBRIC AND NUMBER	<u>PLTC 1301</u>
COURSE TITLE	<u>Introduction to Plastics</u>
COURSE CREDIT HOURS	<u>3 2 :</u> <u>Credits Lec Lab</u>

I. Catalog Description

Surveys a course designed to introduce the student to the field of plastics. Overviews thermoplastic and thermoset materials and the major processing methods utilized by industry and the operation of lab equipment and process methods associated with the materials and end products. As well as the major process utilized by industry. (2:3). **Lab Fee.**

II. Course Objectives

Upon satisfactory completion of this course, the student will be able to:

- A. Describe the properties of the major thermoplastic and thermoset material.
- B. Describe various processing methods associated with the materials and end products.
- C. Compare the properties of plastics, the materials of today, with other materials.
- D. Identify the applications of plastics in manufacturing.
- E. Define plastics as polymeric materials (the concept of plastics).
- F. Use methods of waste control (due to inheritance of process).
- G. Describe injection molding machine and nomenclature.
- H. Identify the molding process.
- I. Describe the environmental impact of polymer materials.

III. THECB Learning Outcomes (WECM)

1. Describe the properties of the major thermoplastic and thermoset plastics as they relate to processing methods.
2. Identify and describe various processing methods associated with the materials and end products.

IV. Evaluation

The skills and knowledge for identification and demonstration as stated in the objectives will be evaluated by assignments and test. Grades will be based on written exams, collaborative activities and lab tasks. Letter grades will be assigned as follows:

90 – 100	A
80 – 89	B
70 – 79	C
60 – 69	D
0 – 59	F

Students will be able to compute their grade average any time during the course. Missed assignments and make-up test will be given at the discretion of the instructor.

V. Disability Statement (American with/Disabilities Act [ADA])

EPCC offers a variety of services to persons with documented sensory, mental, physical, or temporary disabling conditions to promote success in classes. If you have a disability and believe you may need services, you are encouraged to contact the Center for Students with Disabilities to discuss your needs with a counselor. All discussions and documentation are kept confidential. Offices located: VV Rm C-112 (831-2426); TM Rm 1400 (831-5808); RG Rm B-201 (831-4198); NWC Rm M-54 (831-8815); and MDP Rm A-125 (831-7024).

VI. 6 Drop Rule

Students who began attending Texas public institutions of higher education for the first time during the Fall 2007 semester or later are subject to a 6-Drop limit for all undergraduate classes. Developmental, ESL, Dual Credit and Early College High School classes are exempt from this rule. All students should consult with their instructor before dropping a class. Academic assistance is available. Students are encouraged to see Counseling Services if dropping because exemptions may apply. Refer to the EPCC catalog and website for additional information.