

COURSE SYLLABUS

DIVISION: Workforce Services

Revised: January 2015

CURRICULA IN WHICH COURSE IS TAUGHT: Polymer

COURSE NUMBER AND TITLE: IND 180 – Introduction to Plastic and Plastic Procedures

CREDITS: 3

HOURS/WEEK LECTURE: 3

HOURS/WEEK LAB: 0

LECTURE/LAB COMBINATION: 3 (0)

- I. CATALOG DESCRIPTION:** Examines the characteristics and capacities of different plastics and the evolution of plastics and plastic processing equipment. Compares different processing technologies.

- II. RELATIONSHIP OF THE COURSE TO CURRICULA OBJECTIVES IN WHICH IT IS TAUGHT:** Required in the Polymer program

- III. REQUIRED BACKGROUND:** None

- IV. COURSE CONTENT:**
 - Introduction to Plastic Processing Industry
 - Thermoplastics and Thermosets
 - Description
 - Classification
 - Properties of common plastics and processes
 - Current Trends in Industry
 - Basics of the different plastic processes.

IV. LEARNER OUTCOMES:

V: EVALUATION

<p>Upon completion of this course, the student should be able to:</p> <p>Describe the differences between a thermoplastic and a thermoset material, and the typical properties of each</p> <p>Explain the major manufacturing processes used in the Plastics Industry, including extrusion, injection molding, thermoforming, and blow molding</p>	<ul style="list-style-type: none"> • Homework/class work • Quizzes • Tests • Midterm exam • Final exam • Class Participation
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The course supports the following objectives:

DCC Educational Objectives

- Communication
- Critical Thinking
- Computational and Computer Skills