

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