

**COURSE SYLLABUS**

**DIVISION:** Workforce Services

**Revised: January 2015**

**CURRICULA IN WHICH COURSE IS TAUGHT:** Polymer Manufacturing Technology

**COURSE NUMBER AND TITLE:** IND 188- Introduction to Injection Molding

**CREDITS:** 1-2

**HOURS/WEEK LECTURE:** 0-1

**HOURS/WEEK LAB:** 0-2

**LECTURE/LAB COMBINATION:** 1-2

**I. CATALOG DESCRIPTION:**

Presents the basic principles of the plastic injection molding process and injection molding machines. Includes an overview of the injection molding machine, machine safety, the injection molding process, injection molds, material and part handling, and identification of part defects. Lecture 0-1 hours. Laboratory 0-2 hours. Total 1-2 hours per week. 1-2 credits

**II. RELATIONSHIP OF THE COURSE TO CURRICULA OBJECTIVES IN WHICH IT IS TAUGHT:**

Required in the Polymer Manufacturing program

**III. REQUIRED BACKGROUND:** None

**IV. COURSE CONTENT / COURSE OUTLINE:**

- Basic Injection Molding Machine Operations
- Practical Injection Molding
- Practical Injection Molding Expert Series
- Optimizing Machine Control Settings

**V. LEARNER OUTCOMES:**

**VI. EVALUATION:**

<p>The student will have an understanding and knowledge of</p> <p>Basic Injection Molding Machine Operations          Practical Injection Molding          Practical Injection Molding Expert Series          Optimizing Machine Control Settings</p>	<p>Combination of attendance, participation, quizzes, homework, projects and test.</p>
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**The course supports the following objectives:**

DCC Educational Objectives

1. Communication
2. Critical Thinking
3. Computational and Computer Skills
4. Understanding Culture and Society