THE OHIO STATE UNIVERSITY

COLLEGE OF ENGINEERING

Manufacturing Engineering

ISE 4510

Credit Hours:

3.00 - 3.00

Course Levels:

Undergraduate (1000-5000 level)

Course Components:

Lecture

Course Description:

This course: Emphasizes quantitative analysis of manufacturing processes, discusses manufacturing support systems, evaluates interplay between materials and manufacturing, and discusses future manufacturing like automation and data-driven controls.

Prerequisites and Co-requisites:

Prereq: 2500, and enrollment in ISE major.

Course Goals / Objectives:

- Emphasize the quantitative analysis of manufacturing processes Discuss the supporting systems around manufacturing processes
- Evaluate the interplay between materials and manufacturing Discuss future manufacturing efforts, including automation and data-driven controls

Course Topics:

- PART I Introduction, Review of Materials
- PART II Liquid Processing
- PART III Solid Processing
- PART IV Additive Processes, Joining, Additional Topics
- PART V Support Systems and Future Manufacturing

Designation:

Elective