



ME 4000 / ME 6000 SPECIAL TOPICS:

GLOBAL MANUFACTURING

UNIVERSITY POLICY:

This course shall follow the policies and practices as specified by the university.

M.E. Academics: Fall 2020

COURSE DESCRIPTION

This course will introduce frameworks for practical assignments that facilitate applications of a global manufacturing paradigm. We will create rational guidelines for planning, deploying, managing and optimizing operations that make products by means of connected worldwide facilities. The introduction of products is driven by market conditions, customer requirements, innovations and new technologies and most importantly manufacturability. Student assignments will include solving problems, reviewing case studies, conducting research, active engagements as well as completing a major project.

WHY TAKE THIS COURSE?

Proven methodologies currently employed by global manufacturing organizations will be presented. Students are expected to engage each other and various academic sources to create novel concepts that address manufacturing challenges. Learn skills that you can apply anywhere to increase throughput, competitiveness, explore and incorporate new technologies that deliver value to customers. Additionally, the demand for proficient graduates outpaces supply, and manufacturing companies are constantly seeking to fill vacancies.

MAJOR PROJECT

- Synthesize an implementation strategy, that will satisfy high-tech and demanding customers.
- Specify, model, and create a product for manufacturability.
- Collaborate and develop the processes required for manufacturing the product.
- Demonstrate the application of current best practices and employ “kaizen”.

COURSE TEXTBOOK

“The Global Manufacturing Revolution”.
Y. Koren, Wiley Publishing (2010).

WHEN

Fall Semester 2020

DELIVERY MODE (VTC)

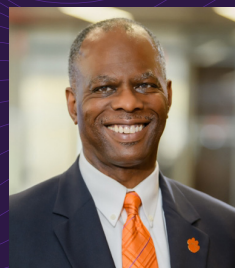
Synchronous Blended. This course will accommodate both on campus and online students.

PREREQUISITES

- ENGL 3140 — Technical Writing and
- ME 3120 — Modern Manufacturing—Materials, Processes, and Systems
- Or consent of course instructor

CROSS-LISTED SECTIONS (3 CREDIT HOURS)

- S2008-ME-4930-864-91262
- S2008-ME-4930-047-85916
- S2008-ME-6930-864-91264
- S2008-ME-6930-047-89305



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