COURSE SYLLABUS
E M 590

Course Name: Leading Design and Innovation

Course Number: E M 590  Semester Credits: 3

Instructor/Contact Information: David Paulus, Ph.D., P.E.
Email: david.paulus@wsu.edu  Office Hours: TBD

Meeting Time: Online, Wednesday 6:15 – 8:30pm Pacific  Prerequisites: None


Course Description and Objectives: “Leading Design and Innovation” covers techniques to identify opportunities for innovation and methods to lead comprehensive product design and development. Key topics include: Design for Manufacturability, Concurrent Engineering, Designing the Product, Designing for Lean and Build-to-order, Standardization, Minimizing Cost by Design, and Design for Quality.

Learning Outcomes: Students will be able to:

• Design for manufacturability
• Improve product development by incorporating lean manufacturing techniques and concurrent engineering
• Minimize cost of designs including standardization
• Implement design for quality techniques