



# Engineering and Technology Management

## COURSE SYLLABUS

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**Course Number:** E M 538

**Course Name:** Lean Agility

**Instructor:** David Paulus

**email:** david.paulus@wsu.edu

**Semester Credits:** 3

**Prerequisites:** None

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### **Course Description and Objectives:**

This course covers methods of improving production with using lean manufacturing and six sigma principles and introduces the “Theory of Constraints” to select which projects to apply the lean and six sigma principles.

### **Learning Outcomes:**

- Continuous Improvement Tools
- Material Flow and Facilities Layout
- Design of Cellular Layouts
- Equipment Efficiency: Quality and Poka-Yoke, Performance and Motion Study, Availability, Maintenance, and SMED
- Environmental Improvements
- 5S Methodology