

ENGT 1200 Course Schedule

Week 1

- Syllabus
 - Definitions: Industrial Engineering and Paradigms
 - Industrial and Systems Engineering and this class
 - Week 1 Notes
- Assignment 1
Assignment 2

Week 2

- the Engineering Design Process / Process Documentation
 - Selecting and Sequencing of Operations (goes with Notes)
 - Operation Process Chart
 - Bill of Material
 - Week 2 Notes
- Assignment 3

Week 3

- Process Analysis (Current state)
 - empty Flow Process Chart)
 - empty Operation Process Chart
 - Week 3 Notes
- Assignment 4

Week 4

- Lean
 - Kaizen
 - 8 Forms of Muda waste
 - Week 4 Notes
- empty Flow Process Chart
Assignment 5

Week 5

- Value added vs Waste
 - Value Stream Mapping
 - Traditional vs Lean Companies
 - Overview of Lean company principles, organization and facility layout
 - empty Flow Process Chart
- Assignment 6

Week 6

- Stability
 - Standardization
 - Just-in-Time Production
 - Jidoka (Poka Yoke)
- Assignment 7

Week 7

- Review of topics / tying together what we've learned
- Review for Midterm Exam
- Midterm Exam
- After-exam Assignment

Week 8

Warehouse or manufacturing plant tour

Week 9

- Introduction to Quality
 - Quality related notes
- Assignment 8

Week 10

- Total Quality Management
 - TQM Notes
- Assignment 9

Week 11

- Quality Tools
 - Tool Notes
- Assignment 10

Week 12

- Pareto Diagrams
 - Pareto Charts
 - Diagrams Notes
 - Pareto Excel Sheet
- Assignment 11

Week 13

- Histogram Diagrams
 - Diagrams Notes
- Histogram Excel Sheet

Week 14

- Fishbone Diagrams
 - Diagram Notes

Week 15

- Review of topics / tying together what we've learned
- Review for Final Exam
- Final Exam