



## ISEE 582/682: Lean Six Sigma Fundamentals

### Schedule

Week	Topic	Textbook**	Homework
#1	Module 1: The Quality Movement	Chapter 1	Student Identity Verification Checklist
#2	Module 2: Leadership Module 3: Systems Thinking Module 4: Affecting Change	Chapter 9	Assignment #1
#3	Module 5: Lean Six Sigma Overview	Chapter 2	
#4	Module 6: Strategic Planning Module 7: Project Selection Module 8: Project Management	Chapter 3 thru p90	Assignment #2
#5	Module 9: Voice of the Customer Module 10: Teamwork	Chapter 8 p272-283	<b>Exam # 1 opens and is due one week later</b>
#6	Module 11: <b><u>Define</u></b>	Chapter 3 p90-	Assignment #3
#7	Module 12: <b><u>Measure</u></b> Module 13: Cost of Quality Module 14: Standard Work	Chapter 4 thru p114	Simulation Project Teams & Leader Finalized
#8	Module 15: Basic Statistics (includes 4 topics) Module 16: MSA, Correlation & Regression	Chapters 4 p114-136 Chapter 5 thru p181	Assignment #4
#9	Module 17: <b><u>Analyze</u></b> Module 18: Benchmarking	Chapter 5 p190-	Simulation: Team <i>Define</i> Report
#10	Module 19: <b><u>Improve</u></b> - Kaizen, Line Design	Chapter 6	<b>Exam # 2 open and is due one week later</b>
#11	Module 20: 5-S, Visual Control	Lecture Notes	Simulation <i>Analyze</i> Due Assignment #5
#12	Module 21: Setup Reduction, TPM, Kanban	Lecture Notes	Simulation <i>Improve</i> Due
#13	Module 22: SPC, Process Capability Module 23: Intro to Design of Experiments	Chapter 7 & p136-143; Chapter 5 p182-190	Simulation <i>Control</i> Due
#14	Module 24: <b><u>Control</u></b> Module 25: Management By Fact	Lecture Notes	Assignment #6: Due: 12/11
Final Exam	Final Exam is given online	Comprehensive	<b><i>Final Exam opens and is due one week later</i></b>

\*Tool Topic Summary (homework) will be randomly assigned early in the course with a specified due date.

\*\*Textbook: "An Introduction to Six Sigma & Process Improvement," 2nd Edition by James R. Evans and William M. Lindsay, Cengage Learning