

**Calendar Dates for Spring Semester 2017 for
SIE-654 Advanced Systems Engineering Concepts**

Dr. David Gross
Subject to Change

Module	Day	Topic	Notes
1	Jan 11	About This Course	
2	Jan 16	MARTIN LUTHER KING DAY	NO CLASS
	Jan 18	Research Methods	
3	Jan 23	Essentials of Systems Engineering	Chapter 1*
	Jan 25	Essentials of Technical Project Leadership	Chapter 6
4	Jan 30	Essentials of System Architecture	Chapters 7-9
	Feb 1	Essentials of System Economics	
5	Feb 6	Essentials of Engineering Statistics	
	Feb 8	Essentials of Manufacturing & Logistics Systems	
6	Feb 13	Essentials of Integrated Product & Process Development	Chapter 2, 10, 11
	Feb 15	Essentials of Decision Modeling	Chapter 14
7	Feb 20	Research: Formal Methods in Systems Engineering	Chapter 15
	Feb 22	Research: Engineered Resilient Systems	Chapter 16
8	Feb 27	Research: Model Based Systems Engineering	Chapter 3
	Mar 1	Research: Systems and SoS Integration	
9	Mar 6	Research: System Architecture and Complexity	
	Mar 8	Research: Trade-space Visualization and Analysis	
	Mar 13	SPRING BREAK	NO CLASS
	Mar 15	SPRING BREAK	NO CLASS
10	Mar 20	Research: Cognitive Systems Engineering	
	Mar 22	Research: Cybersecurity Systems Engineering	
11	Mar 27	Research: Lean and Agile Systems Engineering	
	Mar 29	Research: Cyber-Physical-Social Systems	
12	Apr 3	Research: Systems Thinking and Complexity Management	
	Apr 5	Research: Infusion of System Science in Systems Engineering	
13	Apr 10	Research: Uncertainty Quantification	
	Apr 12	Research: Smart Manufacturing	
14	Apr 17	Research: Advancing Systems Engineering Education	
	Apr 19	Research: Systems Engineering and Decision Science	
15	Apr 24	Semester Project Presentations	
	Apr 26	Semester Project Presentations	
16	May 1	Semester Project Presentations	
	May 3	Semester Project Presentations	

- Chapter references are to the course required text; see syllabus