



University of Missouri

Science and Technology of Terrorism and Counterterrorism UEA-504&504G/MU-NE4430/7330

Instructor

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Description

This is a general overview of energy systems, renewable and non-renewable energy sources, and advances in energy applications.

Recommended Text

Web Page: <http://prelas.nuclear.missouri.edu>

There are two editions of the book (Edition 1-2002, Edition 2-2009). Both editions are designed by clustering topics.

Edition 1. Basics (Chapters 1-4), Biological Terrorism (Chapters 5-10), Nuclear Terrorism (Chapters 11-15), Cyberterrorism (Chapter 16), Chemical Terrorism (Chapters 17-22) and Response and Counterterrorism (Chapters 23-26).

Edition 2 has expanded clusters. Basics (Chapter 1-4), Biological Terrorism (Chapters 5-12), Nuclear Terrorism (Chapters 13-18), Chemical Terrorism (Chapters 19-24), Cyberterrorism (Chapter 25), Response and Counterterrorism (26-29).

Date	Lesson	Assignment
Aug 23	Lesson 1: Introduction	Cluster 1
Aug 25	Lesson 2: Terrorism and Technology (Tillema)	Cluster 1
Aug 30	Lesson 3: Group Psychology of Terrorism (Diamond)	Cluster 1
Sep 1	Lesson 4: The Nature of Terrorism (Wallace)	Read File Reading 4 in Course Documents
Sep 1	Take Timed Quiz on Lessons 1-4	

Sep 7		
Sep 6	Lesson 5: Aerosols and Dispersion (Tompson)	Cluster 1
Sep 8	Lesson 6: Biological Weapons 1 (Prelas)	Cluster 2
Sep 13	Lesson 7: Biological Weapons 2 (Prelas)	Cluster 2
Sep 15	Lesson 8: Bioterrorism (Christensen)	Cluster 2
Sep 20	Lesson 9: Agroterrorism (Prelas)	Cluster 2
Sep 22	Lesson 10: Biosensors (Ghosh)	Cluster 2
Sep 22-27	Take timed quiz on Lessons 5-10	
Sep 27	Lesson 11: Nuclear Radiation and Nuclear Sensors (Miller)	Cluster 3
Sep 29	Lesson 12: Nuclear Dose (Miller)	Cluster 3
	Lesson 13: Nuclear Waste (Miller)	View Videos from Disk 1
Oct 4	Lesson 14: Nuclear Weapons Basics 1 (Loyalka)	Cluster 3
Oct 6	Lesson 15: Nuclear Terrorism: Threats and Countermeasures (Loyalka)	Cluster 3
Oct 8	Lesson 16: Risk (Loyalka)	Find 2 news articles on risks of terrorism (Due Oct 15)
Oct 6-11	Take timed quiz 3 on Lessons 11-16	
Oct 13	Lesson 17: Chemical Terrorism (Viswanath)	Cluster 4
Oct 13-18	Timed Mid-term Exam	
Oct 18	Lesson 18: Chemical Weapons 1 (Viswanath)	Cluster 4
Oct 20	Lesson 19: Chemical Weapons 2 (Viswanath)	Cluster 4
Oct 25	Lesson 20: Chemical Sensors (Prelas)	Cluster 4
Oct 25 – Oct 27	Groups and Group Projects assigned Timed quiz on Lessons 17-20	
Oct 27	Lesson 21: Cyberterrorism 1 (Tyrer)	Cluster 5
Nov 3	Lesson 22: Cyberterrorism 2 (Tyrer)	Find 2 news articles on cyberterrorism (Due Nov 10)
Nov 3-8	Take timed quiz on Lessons 21-22	
Nov 8	Lesson 23: Structures for Blast Loading and Engineering Materials (Gopalaratnam)	Find two news articles on Structures for Blast loading (Due Nov 15)
Nov 10	Lesson 24: Protective Clothing (Ghosh)	Cluster 6 and view videos from disk 2
Nov 15	Lesson 25: Emergency Response (Pilkington)	Cluster 6
Nov 17	Lesson 26: Seven Issues in WMD (Pilkington)	Find 2 news articles on WD terrorism threats (Due Nov 28)
Nov 19-26	Thanksgiving Break	
Nov 29	Project Due	

Dec 1	Lesson 27: Asymmetric Warfare (Prelas)	Find two news articles on asymmetric warfare (Due Dec 3)
Dec 1	Lesson 28: Treaties (Prelas)	Find two news articles on how treaties impact terrorism (Due Dec 6)
Dec 6	Lesson 29: Decontamination (Ghosh)	Find two news articles on decontamination of chemical or biological agents (Due Dec 8)
Dec 8	Lesson 30: Survival Kit (Viswanath and Prelas)	
Dec 12-16	Take timed final exam	