

CS4950/5950 Homeland Security & Cybersecurity

Weapons of Mass Destruction

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> Lesson 10 WMD

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Springs



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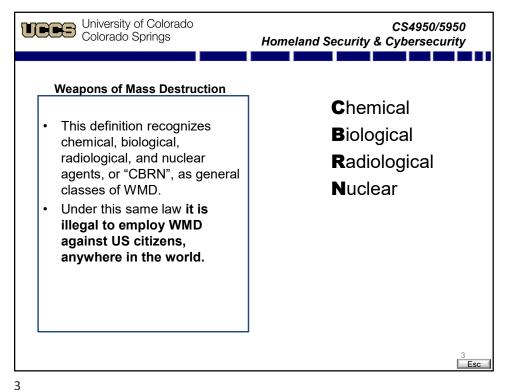
Weapons of Mass Destruction

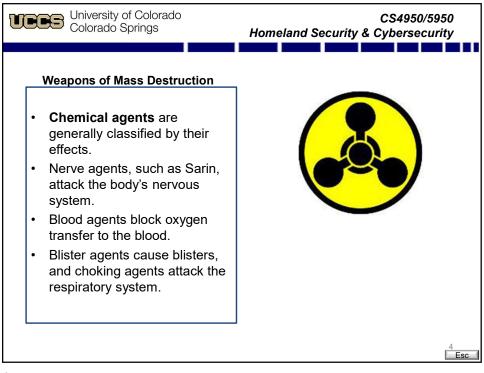
"Any weapon that is designed or intended to cause the death or serious bodily injury through the release, dissemination, or impact of toxic or poisonous chemicals, or their precursors; any weapon involving a biological agent, toxin, or vector; or any weapon that is designed to release radiation or radioactivity at a level dangerous to human life."

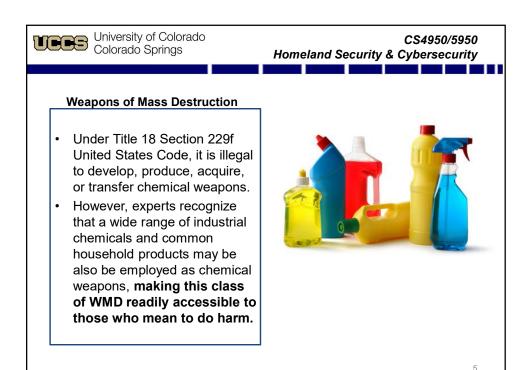
Title 18 Section 2332a United States Code

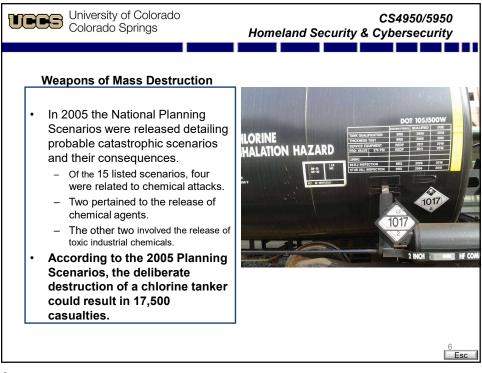


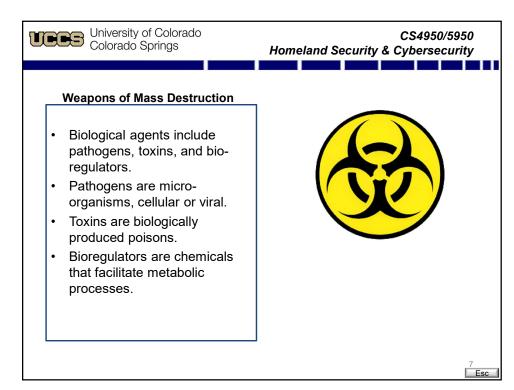
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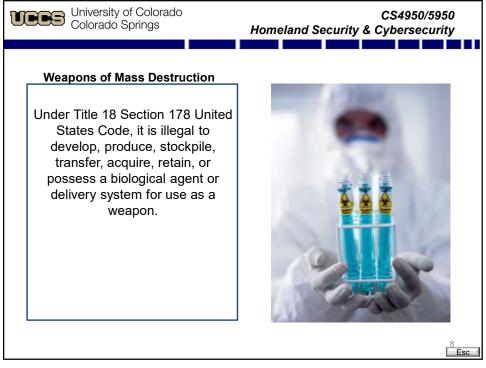


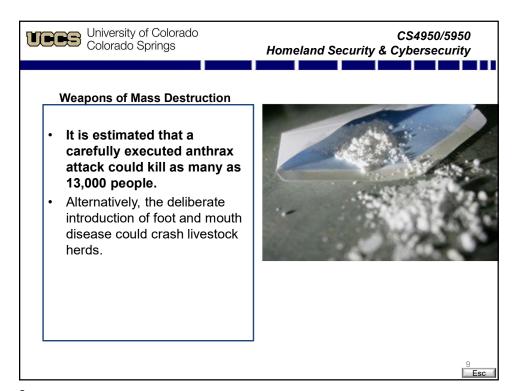


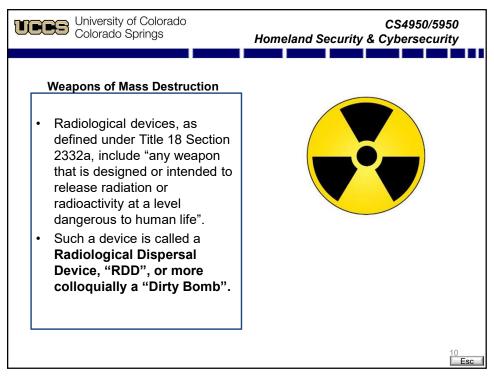


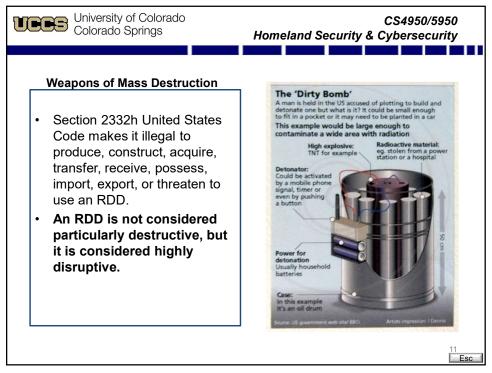


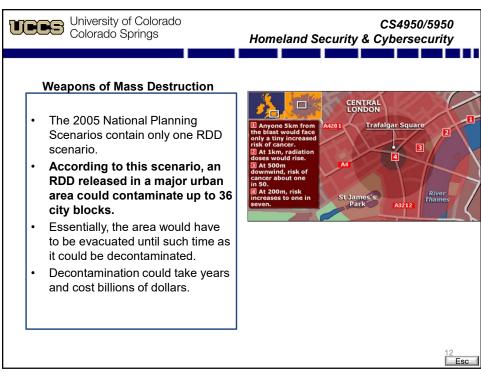














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Weapons of Mass Destruction

- Unfortunately, radiological sources, like their chemical counterparts, are readily available through common sources.
- Radiological agents are used in many medical applications and may be found in most large hospitals.
- Likewise, Americium is a radiological agent commonly found in smoke detectors.
- Fortunately, most of these agents are kept in such small quantities or have such short half-lives that they are impractical to make into weapons.



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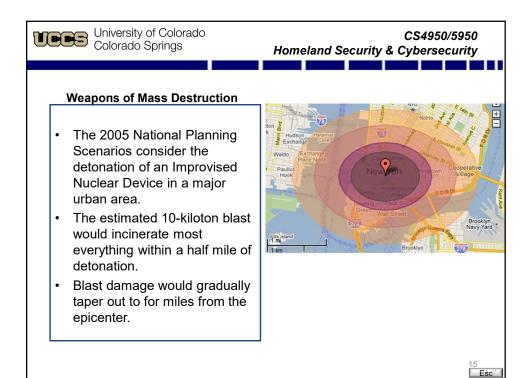
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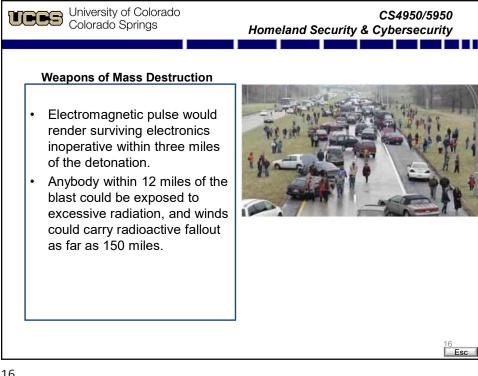
Weapons of Mass Destruction

- Nuclear devices are also comprised of radiological materials, either Plutonium or Highly Enriched Uranium, but they are designed to create a large explosion by inducing an instantaneous and uncontrolled fission reaction.
- Under Title 18 Section 2332a it is illegal for agents not authorized by the Federal government to produce, acquire, or possess a nuclear device.



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Weapons of Mass Destruction

- While the 2005 National Planning Scenarios do not provide an estimate of casualties, a similar device dropped on Hiroshima killed more than 100,000 people.
- Of course, recovery would take decades and cost hundreds of billions of dollars.



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Weapons of Mass Destruction

- It should be noted that the employment of WMD within the United States by non-state actors, while certainly catastrophic, would not threaten the survival of the nation.
- Indeed, following the 1995 Tokyo subway attacks, the Japanese government did not fall, widespread disorder did not ensue, nor did society collapse.
- There is no reason to assume that the outcome would be any different in the United States.



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