**LOGISTICS 115: LOGISTICS SECURITY & RISK MANAGEMENT**

**Lesson Plan/Course Outline, Spring quarter 2013 (updated 4-16-2013)**

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| **Week, Class day and G**ene**ral Topics:** | **Activities and Required or Suggested Readings and Resources:**  **(Read or prepare BEFORE class meets)** |
| **Week 1: Tuesday, April 2, 2013**  **CONTEXT AND DEFINITIONS**   * Supply chain management * Global supply networks * Supply chain risk and security management * Types of security breaches and disruptions * Natural and manmade disasters * Negative consequences | **Read** in Thomas, Volume 1: Chapter 6 (The Global Environment)  **Read** in Thomas, Volume 2: Chapter 1 (Supply Chain Security and the Need for Continuous Assessment)  **Read** “Enhancing Security Throughout the Supply Chain”, especially the first 18 pages: <http://www-03.ibm.com/procurement/proweb.nsf/objectdocswebview/filesupply+chain+security+white+paper+and+assessment+guide+april+2004/$file/supply+chain+security+white+paper+and+assessment+guide+april+2004.pdf>  **Discussion** of content of assigned book chapters and article. |
| **Week, Class day and General Topics:** | **Activities and Required or Suggested Readings and Resources:** |
| **Week 2: Tuesday, April 9, 2013**  **ANALYTICAL FRAMEWORKS**   * Supply chain flows * What is risk? * The MIAMI methodology: * Mapping, Identifying, Assessing, Mitigating and Improving * Portfolio analysis (probability vs. impact) * The Total Security Management (TSM) framework | **Read** in Thomas, Volume 1: Chapter 4 (The Complexity of Assessing Supply Chain Risk)  **Read** in Thomas, Volume 2: Chapter 3 (Supply Chain Security Management and Its Effect on Shareholder Value)  **Submit** case # 1 (Logistics security scrutinized at DHL & Reliance conference)  **In-class exercise**: Suggest security risks and complete a probability/impact matrix  **Discussion** of content of assigned book chapters and case #1. |
| **Week, Class day and General Topics:** | **Activities and Required or Suggested Readings and Resources:** |
| **Week 3: Tuesday, April 16, 2013**  **THE REGULATORY ENVIRONMENT**   * Export control * Import control * Public safety * Legislation * Government agencies involved * International cooperation and agencies | **Read** in Thomas, Volume 1: Chapter 3 (Legal environment of Supply Chain Security)  **Read** in Thomas, Volume 1: Chapter 11 (Customs-Trade Partnership Against Terrorism: A Step Toward Supply Chain Security)  **Read** “National Strategy for Global Supply Chain Security” at <http://www.whitehouse.gov/sites/default/files/national_strategy_for_global_supply_chain_security.pdf>  **Submit** case # 2 (BMW assessing damage to cars after train derails at plant, official says)  **Discussion** of content of assigned book chapters and case #2. |
| **Week, Class day and General Topics:** | **Activities and Required or Suggested Readings and Resources:** |
| **Week 4: Tuesday, April 23, 2013**  **MITIGATION OF SECURITY RISKS**   * Upstream, operational and downstream risks * Tailoring mitigation efforts and methods * Preventative efforts * Business continuation efforts * Resilience     **GUEST PRESENTER: Diane Mooney, Director of the U.S. Export Assistance Center in Seattle** | **Read** Thomas, Volume 1: Chapter 1 (The Mechanics of Supply Chain Theft)  **Read** Thomas, Volume 2: Chapter 2 (Innovative Global Risk Management to Reinforce Supply Chain Security)  **Submit** case #3 (CBP kicks fake NFL, NBA, MLB jerseys out for season)  **Discussion** of content of assigned book chapters and case #3.  **In-class** **exercise**: Matching risks with mitigation methods. Consider pros and cons.  **Q&A Session** with the guest presenter |
| **Week, Class day and General Topics:** | **Activities and Required or Suggested Readings and Resources:** |
| **Week 5: Tuesday, April 30, 2012**  **MARITIME AND PORT SECURITY**   * Securing the supplier networks * Securing the inbound transportation networks * Ocean freight and its security measures | **Read** Thomas, Volume 2: Chapter 6 (A model for supply chain and vessel traffic restoration in the event of a catastrophic port closure)  **Read** Thomas, Volume 2: Chapter 7 (Maritime security: Domain awareness)  **Read** Thomas, Volume 1: Chapter 7 (Barbary Coast revisited: International Maritime Law and Modern Piracy)  **Read** Thomas, Volume 1: Chapter 5 (Managing the twenty-first century piracy threat: The Somali example)  **Submit** case #4 (Green supply chain management requires second-tier suppliers to improve environmental performance and transparency)  **MIDTERM EXAM, ONLINE (Open Until Sunday evening, May 5)** |
| **Week, Class day and General Topics:** | **Activities and Required or Suggested Readings and Resources:** |
| **Week 6: Tuesday, May 7, 2012**  **AIR AND RAIL SECURITY**   * Air transportation and its security measures * Rail transportation and its security measures   **FIELD TRIP TO THE PORT OF TACOMA:**  **Meet at Port Administration Building (One Sitcum Plaza) at 4:00 pm.** | **PROJECT 1 (Port Security) DUE**  **Read** Thomas, Volume 1: Chapter 2 (Supply chain security and international terrorism)  **Read** Thomas, Volume 1: Chapter 10 (International aviation security practices relating to the global supply chain)  **Read** Thomas, Volume 2: Chapter 10 (Integrating airport operations into the global supply chain)  **Read** Thomas, Volume 2: Chapter 11 (Regulation of air cargo security at the international level)  **Submit** case #5 (Advantages/Disadvantages, Modes of Transport)  **Discussion** of content of assigned book chapters and case #5. |
| **Week, Class day and General Topics:** | **Activities and Required or Suggested Readings and Resources:** |
| **Week 7: Tuesday, May 14, 2013**  **ROAD, PIPELINE AND INTERMODAL SECURITY**   * Road transportation (trucking) and its security measures * Pipeline (oil and gas) security * Intermodal considerations and challenges | **Read** Thomas, Volume 2: Chapter 9 (Innovations in trucking security)  **Read** Thomas, Volume 2: Chapter 12 (Commercial vehicle security)  **Read** Thomas, Volume 2: Chapter 8 (Reliable and effective detection, protection, and repair system for Canadian oil/gas pipeline system: conceptual development and validation)  **Submit** case #6 (Truck Hijacking Prevention Fact Sheet)  **Discussion** of content of assigned book chapters and case #6. |
| **Week, Class day and General Topics:** | **Activities and Required or Suggested Readings and Resources:** |
| **Week 8: Tuesday, May 21, 2013**  **WAREHOUSE, INVENTORY AND DISTRIBUTION SECURITY**   * Protecting warehouses, distribution centers, production facilities and terminals   **FIELD TRIP TO FEDEX TRADE NETWORKS IN AUBURN: Meet at the facility at 4:00 pm** | **Read** Thomas, Volume 2: Chapter 4 (Supply chain security performance measures)  **Read** Thomas, Volume 2: Chapter 13 (Distribution/Network/Configuration: A photo essay on operating control)  **Read** “Lay out your warehouse for security: how your warehouse layout can deter inventory theft, pilferage and shrinkage”: <http://www.cisco-eagle.com/catalog/c-3085-laying-out-your-warehouse-to-prevent-theft.aspx>  **Submit** case #7 (Logistics Case Study: Micro Tablets) |
| **Week, Class day and General Topics:** | **Activities and Required or Suggested Readings and Resources:** |
| **Week 9: Tuesday, May 28, 2013**  **SECURING THE INFORMATION AND MONETARY FLOWS**   * Protecting electronic data and transmissions * Protecting intellectual property rights * Anti-corruption and anti-bribery * Insurance and limitations * Tax and Sarbanes-Oxley Act   **GUEST PRESENTER: Stefan Harrell, Customs & Border Protection Supervisor, Tacoma** | **Read** “Enemy at the gate: Threats to information security”:  <http://classes.soe.ucsc.edu/cmps122/Spring04/Papers/whitman-cacm03.pdf>  **Read** “Open group backs initiative to protect supply chain from cybercrime”:  <http://www.computerweekly.com/news/1280094626/Open-group-backs-initiative-to-protect-supply-chain-from-cybercrime>  **Submit** case #8 (Safeguarding intellectual property and addressing corruption in the supply chain)  **Discussion** of content of assigned readings and case #8.  **Q&A session** with guest presenter |
| **Week, Class day and General Topics:** | **Activities and Required or Suggested Readings and Resources:** |
| **Week 10: Tuesday, June 4, 2013**  **LOOKING AHEAD AND STREAMLINING THE SUPPLY CHAIN; EMERGING TECHNOLOGIES**   * Threats for the next decade * Emerging economies and new risk scenarios * Trends in supply chain risk management * Security technologies | **Read** Thomas, Volume 2: Chapter 5 (Identification of potential target locations and attractiveness assessment due to terrorism in the freight transport)  **Read** Thomas, Volume 1: Chapter 8 (Supply chain security in a developing economy: India)  **Read** “Final workshop report: Global supply chain security standards”: <http://publicaa.ansi.org/sites/apdl/Documents/News%20and%20Publications/Links%20Within%20Stories/ANSI%20HSSP%20GSCSS%20report.pdf>  **Submit** case #9 (Technology CBP uses for enforcement – vehicle and cargo inspection system (VACIS))  **Discussion** of content of assigned readings and case #9  **Presentation** of student projects (max. five minutes each) |
| **Week, Class day and General Topics:** | **Activities and Required or Suggested Readings and Resources:** |
| **Week 11: Finals’ week, June 11 - 14, 2013** | **Submit** case #10 (The global supply chain: our economy, security and health depends on it) on or before Tuesday, June 11  **PROJECT 2 DUE Tuesday, June 11**  **FINAL EXAM, ONLINE (Open until Friday evening, June 14)** |