San José State University
Lucas Graduate School of Business
Master of Science in Transportation Management
MTM 226B: Security Issues for Transportation Professionals
Spring-B 2020

Course and Instructor Contact Information

Instructor:	Dan Goodrich, MPA, CEM, CSS, MEP
Office Location:	Contract Instructor
Telephone:	(408) 807-0930
Email:	Daniel.Goodrich@sjsu.edu
Office Hours:	7:00pm to 9:00pm by phone Monday and Tuesday or by appointment
Class Day/Time:	Wednesday, 5:30 – 9:30 pm, March 18 through May 20
Classroom:	Online (Zoom) or specified video-conferencing locations (For locations, contact MSTM Coordinator Michelle Waldron) https://sjsu.zoom.us/j/494037198

Course Format

Students must have regular access to email and the internet in order to communicate with the instructor, submit assignments, and engage in other class activities.

Students attend class sessions by going in person to one of the MTM program videoconferencing sites *or* by joining online using Zoom, SJSU's online meeting application. Details on each option are as follows:

MTM Class Videoconferencing Sites:

Videoconference sites are located at the Lucas Business Complex (Santa Clara, CA), Caltrans district offices, and other participating agencies. For information about these options, contact the MSTM Program Coordinator, Michelle Waldron, at michelle.waldron@sjsu.edu.

Online Access via Zoom:

You can join class using SJSU Zoom from any location, as long as you:

- Are in a quiet room without distractions (e.g., no family members or colleagues walking through or asking questions)
- Have stable internet access

- Use a video camera and good quality microphone so that you are seen as well as heard
- Follow good "meeting etiquette" principles (one such list: https://blog.gotomeeting.com/7-rules-virtual-meeting-etiquette-every-professional-know/)

To access class sessions by Zoom, click on the following link from your computer or tablet: https://sjsu.zoom.us/j/494037198

Plan to join at least ten minutes before 5:30 pm, to make sure you are ready when class begins. (The very first time you join from a computer or device, allow extra time for set-up.)

The university has many useful tutorials on how to use Zoom here: http://www.sjsu.edu/ecampus/teaching-tools/zoom/index.html

Course Description

Examines contemporary challenges to transportation security. Topics to be covered include: management of infrastructure challenges (such as tunnel, bridge, road and rail vulnerabilities) prevention of and response to theft, work place violence, disruptive terrorism, suicide and placement combing attacks, and their related protection strategies. Students will learn about federal and state grants for security, as well as regional transportation planning for disaster response planning.

Lucas College and Graduate School of Business Program Learning Goals

(*Note:* Not all program learning goals are covered in every course)

Goal 1: **Business Knowledge:** Understand basic business principles and demonstrate discipline-specific competencies as applied to local and global environments.

Goal 2: **Communication:** Communicate ideas clearly, logically, and persuasively in oral and written format, using technology appropriately.

Goal 3: **Ethical Awareness:** Recognize, analyze, and articulate solutions to ethical issues that arise in business.

Goal 4: **Leadership, Teams and Diversity:** Comprehend the challenges and opportunities of leading and working in diverse teams and environments.

Goal 5: **Critical Thinking:** Comprehend, analyze, and critically evaluate complex and unstructured qualitative and quantitative business problems, using appropriate tools and technology.

Goal 6: **Innovation:** Recognize, analyze, and articulate strategies for promoting creativity and innovation.

MSTM Program Learning Goals:

(*Note:* Not all program learning goals are covered in every course)

Goal 1: **Transportation Systems and Society:** Develop a systems-savvy and global perspective on solving transportation management challenges

Goal 2: **Transportation Policy:** Develop solutions to transportation management challenges that integrate knowledge of the transportation policy environment

Goal 3: **Leadership:** Identify and analyze leadership styles and traits

Communications: Communicate effectively with a diverse workforce and citizenry

Goal 5:   **Analytical skills:** Identify and evaluate transportation management issues using appropriate data and methods

Course Learning Outcomes

This course educates transportation professionals about security as it applies to managing a transit system or transportation department. Upon successful completion of this course, students will be able to:

LO 1– Identify and evaluate the major principles of transportation security which is assessed in the memos and the security project report

LO 2 – Properly use security terminology in a transportation environment, which is assessed in the memos and the security project report.

LO 3 – Access appropriate organizations and stakeholders in transportation security which is assessed in the Skill Set report and the security project report.

LO 4 – Assess the effectiveness of a security program for a transportation department or a transportation agency which is assessed in the security project report.

Required Texts/Readings

An Anarchist Cookbook: Recipes for Disaster CrimethInc 2004
http://www.archive.org/stream/RecipesForDisasterAnAnarchistCookbook/recipes_for_disaster#page/n0/mode/2up

Stealthiswiki "Security Culture"
https://stw.darknedgy.net/index.php?title=Security_Culture

MTI Report 12-74 The Challenge of Protecting Transit and Passenger Rail
Principal Investigator: Brian Michael Jenkins
http://transweb.sjsu.edu/PDFs/research/1130-how-transit-and-passenger-rail-security-protect-against-terrorism.pdf

MTI Report 97-04 Protecting Surface Transportation Systems and Patrons from Terrorist Activities
Principal Investigator: Brian Michael Jenkins
http://transweb.sjsu.edu/sites/default/files/97-04.pdf

MTI Report 01-07 Protecting Public Surface Transportation Against Terrorism and Serious Crime: Continuing Research on Best Security Practices
Principal Investigator: Brian Michael Jenkins
http://transweb.sjsu.edu/sites/default/files/01-07.pdf

The Art of the Steal: How to Protect Yourself and Your Business from Fraud, America's #1 Crime,
2002 Frank W. Abagnale
http://www.amazon.com/Art-Steal-Yourself-Business-Americas/dp/0767906845/ref=pd_bbs_sr_1/103-9204125-6511829?ie=UTF8&s=books&qid=1186028731&sr=1-1

OR
Scam Me If You Can: Simple Strategies to Outsmart Today's Rip-off Artists,
2019 Frank W. Abagnale
https://www.amazon.com/Scam-Me-You-Can-Strategies/dp/0525538968/ref=sr_1_1?keywords=scam+me+if+you+can&qid=1584510674&sr=8-1

Security Metrics Management, Measuring the Effectiveness and Efficiency of a Security Program, Second Edition, 2017 Dr. Gerald L. Kovacich and Edward P. Halibozek
https://www.amazon.com/Security-Metrics-Management-Effectiveness-Efficiency-ebook-dp-B01MREXVR1/dp/B01MREXVR1/ref=mt_kindle?_encoding=UTF8&me=&qid=1552871221

Other Readings

Ecodefense: A Field Guide To Monkeywrenching 3rd Edition Edited by Dave Foreman
http://theanarchistlibrary.org/HTML/Various_Authors__Ecodefense__A_Field_Guide_to_Monkeywrenching.html#toc235

BosnianBill's LockLab
http://lock-lab.com

Library Liaison

The Library Liaison for the Lucas Graduate School of Business is Christa Bailey (christa.bailey@sjsu.edu).

Course Requirements and Assignments

Success in this course is based on the expectation that students will spend, for each unit of credit, a minimum of 45 hours over the length of the course for instruction, preparation/studying, or course related activities.

Quiz: One take-home quiz will be used to help guide your reading and determine if the course material is having the intended effect.

Skill Set Report: A specific research topic will be selected by each student to research and report back to the class on as the course progresses. The report will be verbal with web references. Use of video (Youtube, videosurf, etc.) is optional.

Video Report: A 2-page report based on a crime case documentary from YouTube (i.e, Masterminds). The report must identify the skillset needed for the perpetrator to have successfully carried out their crime and why they were caught. Criteria for evaluating the reports: clarity, completeness, appropriate format, spelling and grammar.

Participation: This includes interacting with the professor and other students during lectures and student presentations. Participation in the discussion of student projects accounts for 10% of your overall grade, and question and answer during lectures accounts for 4%.

Memos: Select two different transportation assets that might be a target of theft, vandalism or terrorism. Using open source documentation, such as photos or physical descriptions, develop a threat assessment, impact statement and preventive action plan for your selected asset. Real intelligence, i.e. location, times, personnel names must be substituted.

First Memo will concern a door of your choosing that presents a security issue/concern.

Second Memo will be a security issue of your choosing.

Write a 2-page (double spaced) report using the public/council memo format (to/from/subject/date heading; background, analysis, conclusion) describing the asset/situation you selected. These memos should include the following sections:

Background = description of the asset, including likely types of loss.

Analysis = what vulnerabilities exist for this asset, what would the community impacts be if this asset were out of service for several weeks or more, what local, state or national political ramifications would there be if this asset were out of service for several weeks or more.

Conclusion = recommendation for a corrective/preventative course of action.

Criteria for evaluating the memos: clarity, completeness, appropriate format, spelling and grammar.

Security Project Report: As described in class session 4, represents the culminating experience of the class. Using a project management structure, the student will develop an operational level plan on evaluating a transportation security apparatus with intention to defeat/bypass and provide commentary on how such a plan might be thwarted. Grading is based on thoroughness of plan, clarity, spelling and punctuation.

Final Evaluation

Security Project Report: As described in class session 4, represents the culminating experience of the class. Using a project management structure, the student will develop an operational level plan on evaluating a transportation security apparatus with intention to defeat/bypass and provide commentary on how such a plan might be thwarted. Grading is based on thoroughness of plan, clarity, spelling and punctuation. **Grading Information**

Students' course grades will be assessed as follows:

Task	% of Course Grade
Quiz	12%
Skill Set Report	15%
Video Report	12%
Classroom Participation	14%
Memos (2)	22%
Security Project Report	25%

Determination of Grades

- A 1% deduction will be applied for each day a task is late up to the total value of the task. For example, if the quiz is one day late then maximum value will be 11%. If it is 12 days late it will have no value. The only exception will be for documented medical issues or family emergencies (i.e., death in the family).

Percentage	Grade
98% and above	A plus
97% - 93%	A
92% - 90%	A minus
89% - 87%	B plus
86% - 84%	B
83% - 80%	B minus
79% - 77%	C plus
76% - 73%	C
72% - 70%	C minus
69% - 67%	D plus
66% - 63%	D
62% - 60%	D minus
below 60%	**F**

University Policies

Per University Policy S16-9 (http://www.sjsu.edu/senate/docs/S16-9.pdf), information relevant to all courses, such as academic integrity, accommodations, dropping and adding, consent for recording of class, etc. is available on Office of Graduate and Undergraduate Programs' Syllabus Information web page at http://www.sjsu.edu/gup/syllabusinfo/." Make sure to visit this page, review, and be familiar with these university policies and resources.

MTM 226B Spring 2019B
Course Schedule
Schedule subject to change with fair notice to students via email

Week	Date	Topics, Readings, Assignments, Due Dates
1	3/18	**Introductions, Mindset, Tools and the Game** **BosnianBill's LockLab** http://lock-lab.com
2	3/25	**OPEN SOURCES** MTI Report 97-04 & 01-07 Directed, three teams *Recipes for Disaster: Page 330 and 461-473 "Security Culture"* *Stealthiswiki "Security Culture"* *Ecodefence: Chapter 9, Security* – reference
3	4/1	**INCIDENT RESPONSE TO TERRORIST BOMBINGS** MTI Report 12-74
4	4/8	**OFFENSE And DEFENSE, Security Project Report**　　　　**Memo 1 Due** Security Metrics Management: Chapter 2 The Art Of The Steal: Prologue, Chapters 1-7 **OR** Scam Me If You Can, Intro, Chapters 1-6
5	4/15	**SURVEILLANCE, Detection and Counter**　　　　**Video Report Due** Security Metrics Management: Chapters 4 and 17 The Art Of The Steal: Chapters 8-11 **OR** Scam Me If You Can, Chapters 7-14, Epilogue
6	4/22	**Risk Management, Audits and Collecting Data** Security Metrics Management: Chapters 1, 7 and 5
7	4/29	**Organization wide issues**　　　　**Skill Set Reports** Security Metrics Management: Chapters 3, 6 and 10
8	5/6	**Security apparatus issues**　　　　**Memo 2 Due** **Skill Set Reports** Security Metrics Management: Chapters 9 and 8
9	5/13	**PREVENTION AND RESPONSE TO SUICIDE BOMBING INCIDENTS** Security Metrics Management: Chapters, 13, 15 and 19
10	5/20	**YOU ARE A TARGET**　　**Security Project Report (due Monday 5/18)** Security Metrics Management: Chapter 14