

San José State University
Lucas Graduate School of Business

Master of Science in Transportation Management
MTM 226B: Security Issues for Transportation Professionals
Spring-B 2025

Course and Instructor Contact Information

Instructor:	Dan Goodrich, MPA, CEM, CSS, MEP
Office Location:	Contract Instructor
Telephone:	
Email:	Daniel.Goodrich@sjsu.edu
Office Hours:	7:00pm to 9:00pm by phone Monday and Wednesday or by appointment
Class Day/Time:	Tuesdays, 5:30 – 9:30 pm (PDT), March 18 through May 20 Equipment setup and check in after 5:00pm
Classroom:	Online Zoom:

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 online using Zoom, SJSU's online meeting application.

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: [Virtual Meeting Etiquette: The 20 Ground Rules For Virtual Meetings](#))

To access class sessions by Zoom, click on the following link from your computer or tablet:

Classroom will be opened at 5:00pm PST. Plan to join at least five minutes before the 5:30 pm start time, 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: <https://www.sjsu.edu/learnanywhere/how-tos/zoom/index.php>

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, terrorism (including suicide and combined arms 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.

MSTM Program Learning Goals:

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

- Goal 1: Transportation Systems and Society:** Craft management decisions that integrate knowledge of multi-modal transportation, social, and environmental systems
- Goal 2: Transportation Policy:** Develop innovative solutions to transportation management challenges
- Goal 3: Leadership:** Develop high-impact leadership styles and competencies (traits, skills, behaviors)
- Goal 4: 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”

See PDF email attachment “Steal This Wiki 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-](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)

[Strategies/dp/0525538968/ref=sr_1_1?keywords=scam+me+if+you+can&qid=1584510674&sr=8-1](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, How to Manage the Costs of an Asset Protection Program, First Edition, 2005 Dr. Gerald L. Kovacich and Edward P. Halibocek

https://www.amazon.com/Security-Metrics-Management-Protection-Program-ebook/dp/B001CESGDQ/ref=sr_1_2?dchild=1&qid=1615778352&refinements=p_27%3AGerald+L.+Kovacich&s=digital-text&sr=1-2&text=Gerald+L.+Kovacich

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. This requires the use of video and audio medium per SJSU online class guidelines.

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/redacted.

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 **provided 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: use of provided format, clarity, completeness, spelling and grammar.

Memo Grading: As described in class session 1, represents an opportunity to evaluate and grade a memo provided using the same metrics used in assessing the two memos submitted as part of the regular course work. Purpose is to provide insight into evaluating and proof reading. Grading is based on thoroughness of identifying mistakes

Playground: Represents an opportunity to apply lessons learned in class session 5 by visiting a local playground and determining observation and counter-observation points.

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.

University Policies

Per [University Policy S16-9](http://www.sjsu.edu/senate/docs/S16-9.pdf) (<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](http://www.sjsu.edu/gup/syllabusinfo/) at <http://www.sjsu.edu/gup/syllabusinfo/>." Make sure to visit this page, review, and be familiar with these university policies and resources.

Grading Information

This course is structured to provide as much feedback as possible by two methods. The first is having in class discussions on each of the assignments **except** for the two memos. This includes the Security Project Report. Discussions will address the general responses of the class. Individual responses of particular note might be

sighted but only if they are reaffirming. An individual meeting with each student, via phone or Zoom, student's choice, will also be conducted. This will be scheduled around weeks six and seven and will address the first memo as well as any other material to that date.

Students' course grades will be assessed as follows:

Task	% of Course Grade
Memo Grading	3%
Quiz	10%
Video Report	10%
Skillset Report	10%
Playground	10%
Memos (2)	22%
Security Project Report	25%
Classroom Participation	10%

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 9%. If it is 10 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

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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 <u>Memo Grading Due 5:29pm</u> MTI Report 97-04 & 01-07 Directed, teams <i>Recipes for Disaster: Page 330 and 461-473 "Security Culture"</i> <i>Stealthiswiki "Security Culture"</i> <i>Ecodefence: Chapter 9, Security – reference</i>
3	4/1	Energetic Materials MTI Report 12-74
4	4/8	OFFENSE And DEFENSE, Security Project Report <u>Memo 1 Due at 11:59pm</u> Security Metrics Management: Introduction and Chapter 1 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 <u>Video Report Due at 11:59pm</u> Security Metrics Management: Chapters 3 and 4 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 <u>Playground Due at 11:59pm</u> Security Metrics Management: Chapters 10, 11 and 24
7	4/29	Organization wide issues Skill Set Report in-class presentations Security Metrics Management: Chapters 7, 8 and 9
8	5/6	Security apparatus issues <u>Memo 2 Due at 11:59pm</u> Skill Set Report in-class presentations Security Metrics Management: Chapters 14, 15 and 16
9	5/13	Motivation Security Metrics Management: Chapters 12, 19
10	5/20	YOU ARE A TARGET Skill Set Report in-class presentations Security Metrics Management: Chapter 18

Security Project Report Due Sunday 5/18 at 11:59pm