

San José State University
Lucas Graduate School of Business
Master of Science in Transportation Management
MTM 246 - High Speed Rail Management II
Fall 2017

Course and Instructor Contact Information

Instructor:	Ben Tripousis
Office Location:	210 4 th Street, 4 th Floor
Telephone:	408-515-8800
Email:	Ben.tripousis@gmail.com
Office Hours:	By Appointment
Class Day/Time:	Wednesdays, 5:30-9:30 pm October 11 – December 13, 2017
Classroom:	Specified video-conferencing locations (For locations, contact Ms. Viviann Ferea at viviann.ferea@sjsu.edu)
Prerequisites:	Graduate Standing
Course website:	Students will use Canvas

Course Format

Students attend class sessions via live video conferencing at the site most convenient to them, with sites at the Mineta Transportation Institute, Caltrans District headquarters, and other participating agencies.

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.

Faculty Web Page and MYSJSU Messaging

Course materials such as syllabus, handouts, notes, assignment instructions, etc. can be found on my faculty web page at <http://www.sjsu.edu/people/firstname.lastname> and/or on [Canvas Learning Management System course login website](http://sjsu.instructure.com) at <http://sjsu.instructure.com>. You are responsible for regularly checking with the messaging system through [MySJSU](http://my.sjsu.edu) at <http://my.sjsu.edu> (or other communication system as indicated by the instructor) to learn of any updates.

Course Description

Designed for students interested in participating in the evolving Intercity and High Speed Passenger Rail Program in the United States, the course is a companion to MTM 245, and will introduce students to the Intercity and High Speed Passenger Rail mode and describe its attributes and technical components. The worldwide status of the mode will be described as well as the path being taken in the United States. The course will also deal with general enterprise management and the management competencies required. It will introduce students to the issues of organizing project development and implementation.

MSTM Program Goals:

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

Goal One: Management of Transportation Organizations

Develop a system-level and global perspective on the management of transportation organizations.

Goal Two: Transportation Policy

Develop an awareness of the transportation policy environment, including fiscal mechanisms, legislative structures, and intergovernmental coordination.

Goal Three: Leadership

Develop potential for leadership in transportation organizations.

Goal Four: Communication Skills

Develop written and oral communication skills and techniques.

Goal Five: Analytical Skills

Develop ability to analyze management issues and situations using appropriate conceptual approaches.

Goal Six: Information Technology

Develop basic understanding of commonly used information technology applications used by the transportation industry.

Course Learning Outcomes

MTM 246, and will introduce students to the Intercity and High-Speed Passenger Rail mode and describe its attributes and technical components. The worldwide status of the mode will be described as well as the path being taken in the United States, with an emphasis on the California High Speed Rail Project. The course will also emphasize the importance of Regional Rail Systems on the overall efficiency of High Speed Rail (HSR) operation.

MTM 245/246 will introduce students to high speed rail program elements including project development, environmental clearance and implementation. In addition, the course will review the necessary skills and strategies to pursue a career in planning, development, construction and operation of high speed rail systems. The course is presented in two parts and will be continued in the Fall Session B.

After completing MTM 246, students will be able to:

1. Develop a system-level and global perspective on the management of transportation organizations
 - (a) For Intercity and High-Speed Rail organizations: understand the management challenges at different stages of project development and implementation
2. Develop an awareness of the transportation policy environment, including fiscal mechanisms, legislative structures, and intergovernmental coordination
 - (b) For US Intercity and High-Speed Rail programs: understand the legislative challenges, competing future visions, role of Amtrak and funding challenges
3. Develop potential for leadership in transportation organizations
 - (c) Develop personal knowledge and expertise that can be applied to potential employment in Intercity and High-Speed Rail enterprises
4. Develop written and oral communication skills and techniques
 - (d) Apply research, writing, and presentation skills to communicate ideas, points-of-view and awareness of the issues facing High Speed and Intercity Passenger Rail
5. Develop ability to analyze management issues and situations using appropriate conceptual approaches
 - (e) Integrate management concepts and management competencies to the organizational challenges facing high speed and intercity rail enterprises.

Discuss the primary elements of intercity and high-speed rail (HSR) and their Planning, Maintenance, and Operations.

1. Address the impacts of HSR on the operation of existing intercity rail and freight services.
2. Understand and evaluate case studies of current world-wide projects such as:
 - a. California High Speed Rail Project
 - b. Midwest High Speed Rail Project
 - c. Pacific Northwest High Speed Rail Project
 - d. European Projects: Spain, France, Italy, Germany, UK
 - e. Asian Projects: Japan, Taiwan, Korea, China
 - f. Australian Speed Rail Project
3. Understand the critical components of managing public transportation organizations.
4. Understand and interpret the transportation policy environment, including key fiscal mechanisms, legislative structures, and components of developing High Speed Rail Systems around the world.
5. Describe both a system-level and a more global perspective on the management of High Speed and Regional Rail organizations.
6. Understand the skills and techniques necessary to be a manager or executive in the transportation industry.
7. Analyze project development issues and situations using appropriate conceptual approaches, using contemporary scholarly and professional literature as a key resource.

Required Texts/Readings (Available to student on Amazon.com)

- *Fast Trains – America’s High-Speed Future*
Emy Louie with Nancy Bolts, Transportation Media Enterprises – 2012
- *The Wall Street Journal Essential Guide to Management*
Allan Murray, Harper Business – 2010

Other Readings

Additional readings will be emailed by the instructor

Library Liaison

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

Final Examination or Evaluation

Each student will be required to prepare a paper on a topic related to high speed and/or intercity rail, focusing on operational challenges. Topics should be submitted for approval by the third week of class (October 25, 2017). **The paper will be due at the beginning of the last day of class: December 13, 2017.** Students shall be prepared to deliver a summary of the paper on December 13, 2017, in an oral presentation of no more than ten minutes. The purpose of the paper is to describe an aspect of high speed or intercity rail service and its value to the improvement of mobility, and economic development in its respective community. Topics may include, but are not limited to, planning activities, schedule development, contractual relationships, private and public sector relationships, security and safety, communications and any other activity which would need to be addressed as part of project development.

Students will be assigned to research a national rail system or regional case study in worldwide Intercity or high-speed passenger rail and make a *PowerPoint* presentation to the class at the last class session. These assignments will be discussed and assigned at the first two class sessions.

Students will also be assigned chapters in the *Essential Guide to Management* text and students will present a brief report of the highlights and essential points described in a chapter or chapters in each class session that a chapter is assigned.

Grading Information

Grades will be determined by the following elements:

- Level of Clarity, Topic understanding, and Presentation of Final Paper Powerpoint Presentation.
- Quizzes, each class will have graded quizzes associated with the week’s reading materials. Scores will be based knowledge of material and articulation of main discussion themes.
- Clarity and Presentation of the selected topic of the final paper and Powerpoint presentation. Topic must be associated with High-Speed Rail (HSR) service, operations or a component of rail service (Safety, Security, Multi-Modal Systems, Transit Oriented Development, etc.).
- Penalty (if any) for late or missed work not completed before the end of the semester will be one-quarter grade.

Grade Distribution

Task	% of Course Grade
Research Assignment	35%
In class Presentation	25%
In class participation??	30%
Quiz Scores	10%
Total	100%

Letter grade calculation

Percentage	Grade
95% and above	A+
90% - 94%	A
87% - 90%	A-
84% - 86%	B+
80% - 83%	B
77% - 79%	B-
73% - 76%	C+
70% - 72%	C
67% - 69%	D+
64% - 66%	D
60% - 63%	D-
below 60%	F

Classroom Protocol for the Lucas College Graduate School of Business

<http://www.sjsu.edu/cob/Students/policies/index.html>

University Policies

Per University Policy S16-9, university-wide policy information relevant to all courses, such as academic integrity, accommodations, etc. will be 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/>"

Lucas College and Graduate School of Business Mission

We are the institution of opportunity in Silicon Valley, educating future leaders through experiential learning and character development in a global business community and by conducting research that contributes to business theory, practice and education.

Course Policy on Recording or Sharing Materials

Notice: Common courtesy and professional behavior dictate that you notify someone when you are recording him/her. You must obtain the instructor's permission to make audio or video recordings in this class. Such permission allows the recordings to be used for your private, study purposes only. *The recordings are the intellectual property of the instructor; you have not been given any rights to reproduce or distribute any of the material used in the course.* To reiterate: course material developed by the instructor is the intellectual property of the instructor and cannot be shared publicly without his written approval. You may not publicly share or upload instructor generated material for this course such as exam questions, lecture notes, course presentations or homework solutions without instructor consent. You may, for your own use only, upload the material the instructor places on the Canvas course site. All of the assigned work by students remains their property, however, by submitting to the instructor, students give the instructor the right to use, reuse and work with this content without further approval.

MTM 246 - High Speed Rail Management II

Course Schedule

Class Session	Date	Topics, Readings, Assignments, Deadlines
1	10-11-17	Course Introduction – Introduction to High Speed Rail Overview of the California High Speed Rail Project Reading: California High Speed Rail Program 2016 Business Plan
2	10-18-17	Systems Operations How can we achieve multi-modal integration?
3	10-25-17	Planning for the Protection of High Speed Rail Systems What are effective approaches to protecting High Speed Rail systems? Reading: Fast Trains, Chapters 1 & 2 Management Text, Chapters 1 & 2
4	11-1-17	Regional Rail Systems How can you effectively connect a region through rail transit? Reading: Fast Trains, Chapters 3 & 4 Management Text, 3 & 4
5	11-8-17	Reading: Fast Trains, Chapters 5 & 6 Management Text, Chapters 5 & 6
6	11-15-17	Expanding Operations and Increasing Service How can you expand existing service to address growing travel demand? Reading: Fast Trains, Chapters 7 & 8 Management Text, Chapters 7 & 8
7	11-22-17	Reboot - Turning on the power What are the impacts of rail expansion and system electrification? Reading: Fast Trains, Chapters 9 & 10 Management Text, Chapters 9 & 10
8	11-29-17	How will the electrification of the Peninsula Corridor Rail System change rail service in the Bay Area? Reading: Fast Trains, Chapters 11, & 12 Management Text, Chapters 11 & 12
9	12-6-17	Building a rail system from scratch How are HSR systems made operational? Reading: Fast Trains, Chapter 13 & 14 Management text, Conclusion
10	12-13-17	Class paper presentations, wrap-up Class paper is due at the beginning of class

