Course and Instructor Contact Information

Instructor: Dr. Kevin Fang
Office Location: Contact instructor
Email: fangk@sonoma.edu
Office Hours: By appointment
Class Day/Time: Tuesdays, 5:30 – 9:30 pm, on March 16, March 23, March 30, April 6, April 13, April 20, April 27, May 4, May 11, and May 18
Classroom: Online (Zoom)

Course website: Canvas (http://sjsu.instructure.com)

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 joining 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: 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.

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

Core transportation knowledge and systems thinking. Characteristics of travel modes and infrastructural elements that produce transportation systems; public, private, and nonprofit actors involved in transportation; transportation systems as levers toward achieving economic vitality, social equity, environmental sustainability, and community goals; and key challenges transportation system managers will face in the coming decade. Note: this course satisfies the GWAR for the MSTM program.

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

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

Upon successful completion of this course, students will be able to:

1. Describe the primary modes of transportation and their functions, current levels of use, and likely levels of use in the future

2. Explain how “the transportation system” functions as interacting systems of infrastructure, services, and travel modes

3. Explain how transportation system performance is influenced by natural and man-made environments

4. Explain how transportation systems serve as tools to achieve fundamental social goals such as equity, economic vitality, and environmental health

5. Describe the roles of the many actors in the “transportation ecosystem,” including public agencies from the local to federal and international levels, private sectors firms providing transportation services and infrastructure, and individual travelers and shippers

6. Describe the key challenges facing transportation managers in the coming decade, including automated/connected, shared, and electric vehicles, and management strategies to respond to this new world

7. Describe the importance of innovation in technology and in organizational management practices in the transportation sector

8. Use library and online resources to identify relevant professional and scholarly literature on transportation topics
Required Texts/Readings

Free e-textbook
We will utilize the following text:


This is available as a free e-book through the SJSU library website. If you’d like to purchase a hard copy of the text, used copies start at around $30.

Writing Handbook
Students must purchase one required text:


New copies can be purchased for about $15.

Article Readings
Additional readings will be posted as links (see Course Schedule below or Canvas) or posted to the Files section of the course Canvas site.

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

Course Requirements and Assignments
This course is taught as a seminar. Students are expected to engage with the course material and participate in class discussions. Please be respectful of your classmates during class and be aware of what is captured by your camera and microphone. Students course grades will be based on the sum of the following assignments:

Term Paper
The major assignment for the class is a term paper on a transportation management issue. Students will explore what scholarly research tells us about a transportation problem and potential solutions to that problem. Students will complete this assignment in three steps: a short sketch of the paper and two drafts. After the sketch and first draft, students will receive feedback from the instructor or their peers. Detailed instructions for each portion of the assignment will be shared on Canvas and discussed in class.

Term Papers should be about 3,000 words, exclusive of the bibliography and any appendices.

MTM 201 is a 3-unit course that satisfies the Graduation Writing Assessment Requirement (GWAR). To satisfy the GWAR requirement, students must receive at least a “C” grade on the final draft of the term paper. Students who receive a grade below “C” for this part of the course will not meet the GWAR requirement, even if their overall grade for the course is higher. Please check with the instructor or MSTM Program Director if you are unclear about these requirements.

Streets of the World Assignment and Travel Behavior Interviews
Early in the semester will be two small assignments where students will do some pre-class search to setup in-class discussions. In the first assignment, students will look at examples of streets around the world and over
time and explore the role of streets in society. In the second assignment, students will conduct two informal interviews to explore individual decision-making in transportation.

**Transportation News Presentations**

Students will bring in interesting examples from transportation current events in the form of short presentations. Several of these will occur each week in the second half of the course.

**Final Exam**

Students will complete a final exam on the last day of class which will evaluate student’s comprehension of the material covered over the whole session.

**Grading Information**

The course assignments will be weighted as follows:

<table>
<thead>
<tr>
<th>Task</th>
<th>% of Course Grade</th>
<th>Learning Objectives Addressed</th>
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<tbody>
<tr>
<td>Term Paper – Sketch/Peer Review</td>
<td>3%</td>
<td>2, 3, 4, 5, 8</td>
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<tr>
<td>Term Paper – First Draft</td>
<td>6%</td>
<td>2, 3, 4, 5, 8</td>
</tr>
<tr>
<td>Term Paper – Second Draft</td>
<td>35%</td>
<td>2, 3, 4, 5, 8</td>
</tr>
<tr>
<td>Streets of the World Assignment</td>
<td>6%</td>
<td>1, 2, 3, 4, 8</td>
</tr>
<tr>
<td>Travel Behavior Interview Assignment</td>
<td>6%</td>
<td>1, 3, 4, 5</td>
</tr>
<tr>
<td>Transportation News Presentations</td>
<td>9%</td>
<td>2, 3, 4, 5, 6, 7</td>
</tr>
<tr>
<td>Final exam</td>
<td>35%</td>
<td>1, 2, 3, 4, 5, 6, 7</td>
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**Determination of Grades**

Letter grades for the course will assigned based on the cumulative total of points earned on assignments and the final exam according to the following table:

<table>
<thead>
<tr>
<th>Final grade determination</th>
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<tr>
<td><strong>Percentage</strong></td>
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<tr>
<td>93.33% and above</td>
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<td>93.33% to 89.5%</td>
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<td><strong>below 59.5%</strong></td>
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Late papers
Late papers are accepted with a 10% deduction once late, plus an additional 5% deduction per additional business day an assignment is late, with a maximum deduction of 40%.

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.

Course Schedule
Note: This schedule is subject to change with fair notice. Changes will be noted in class and via email.

Assignment Due Dates

Streets of the World assignment
Tuesday, March 23 (by the start of class)

Travel Behavior assignment
Tuesday, April 6 (by the start of class)

Transportation News Presentations
Multiple dates. Presentation slots each class between Week 5 and Week 10.

Term Paper
Sketch (1-2 pages): Tuesday, April 13 (by the start of class)
First draft: Sunday, April 25 (by 11:59pm)
Second draft: Friday, May 21 (by 11:59pm)

Final Exam
Tuesday, May 18 (during class)

Class 1 – March 16

Introductions
Transportation Basics
Key societal trends

Readings
• Tumlin (2012) – Sustainable Transportation Planning
  Chapter 1: Introduction
  Chapter 2: Sustainable Transportation (Pages 7-14)
Class 2 – March 23

GWAR Assignment, Part 1: Introduction to the assignment
Transportation-Land Use Connection
Discussion: Streets of the world

- Tumlin (2012) – Sustainable Transportation Planning
  Chapter 5: Streets

Class 3 – March 30

Introduction to Travel Behavior
GWAR Assignment, Part 2: Finding and Accessing Library Resources
Transportation Externalities: Natural environment

- Tumlin (2012) – Sustainable Transportation Planning
  Chapter 2: Sustainable Transportation (Pages 15-22)
  Chapter 3: Transportation and Public Health

For reference

Class 4 – April 6

GWAR Assignment, Part 3: Citations
Transportation Externalities: Safety
Discussion: Travel behavior interviews

Class 5 – April 13

GWAR Assignment, Part 4: Peer Review Activity

Congestion

Transportation Externalities: Road Building

- Tumlin (2012) – Sustainable Transportation Planning
  Chapter 9: Motor Vehicles
  Chapter 10: Parking

Class 6 – April 20

Transit

- Tumlin (2012) – Sustainable Transportation Planning
  Chapter 8: Transit

Class 7 – April 27

Non-motorized transportation

- Tumlin (2012) – Sustainable Transportation Planning
  Chapter 6: Pedestrians
  Chapter 7: Bicyclists
- Alta Planning and Design, “Understanding the “Four Types of Cyclists,” August 10, 2017, [https://blog.altaplanning.com/understanding-the-four-types-of-cyclists-112e1d2e9a1b](https://blog.altaplanning.com/understanding-the-four-types-of-cyclists-112e1d2e9a1b)

Class 8 – May 4

Transportation Revolutions: Electric Vehicles, Autonomous Vehicles

More on Transit
Class 9 – May 11

Transportation Revolutions: Ride-Hailing
Transportation and Labor Models

- Tumlin (2012) – Sustainable Transportation Planning
  Chapter 4: The City of the Future

Class 10 – May 18

Final Exam
Course wrap-up