

**San José State University**  
**Lucas Graduate School of Business**  
**Master of Science in Transportation Management**  
**MTM 215: Transportation Planning and Project Development**  
**Fall-B 2019**

**Course and Instructor Contact Information**

<b>Instructor:</b>	Dr. Nick Compin
<b>Office Location:</b>	Contact Instructor
<b>Telephone:</b>	916 653-4575
<b>Email:</b>	talosjaka@yahoo.com
<b>Office Hours:</b>	By appointment
<b>Class Day/Time:</b>	Tuesdays, 5:30-9:30 pm, on Oct. 8, 15, 22, 29; Nov. 5, 12, 19, 26; Dec. 3, 10.
<b>Classroom:</b>	Specified video-conferencing locations (For locations, contact the MSTM Coordinator, Michelle Waldron)
<b>Prerequisites:</b>	MTM 201 or MSTM Program Director consent
<b>Course website:</b>	Canvas ( <a href="http://sjsu.instructure.com">http://sjsu.instructure.com</a> )

**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 Program Coordinator, Michelle Waldron, at [michelle.waldron@sjsu.edu](mailto: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/9471696533>

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>

## **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/nicholas.compin> and/or on [Canvas Learning Management System course login website](#) at <http://sjsu.instructure.com>. You are responsible for regularly checking with the messaging system through [MySJSU](#) at <http://my.sjsu.edu> (or other communication system as indicated by the instructor) to learn of any updates.

## **Course Description**

Examines management of transportation planning and project development processes, including: regional and state system-wide planning; project-level planning; environmental review; obtaining governmental approvals and permits; contract management; and project management.

## **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**

In this course students will explore the planning and development of surface transportation systems in the context of current and past government goals, policies and regulations. The goal is for students to begin to understand the complex interrelationships that exist between transportation, land use, and the environment, the balancing of competing interests in the multi-faceted and multi-jurisdictional intergovernmental settings that are characteristic of states and major metropolitan areas, and the processes followed to develop consensus on transportation strategies.

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

1. Explain the general history of transportation planning in the US and the impact of transportation planning on the transportation system.
2. Explain current processes and theories for state, regional, and project planning
3. Explain how community involvement and environmental review influence planning processes
4. Design effective and feasible performance measurement tools
5. Explain best practices in managing contracts and contractors
6. Explain the basic tenants of project management

## **Required Texts/Readings**

### **Textbook**

The Geography of Urban Transportation, Fourth Edition Genevieve Giuliano and Susan Hanson Guilford Press, 2017 - Science – 400 pages. ISBN-13: 978-1462529650 ISBN-10: 1462529658 There are many on-line sources for this text.

### **Other Readings**

Any additional reading will either be publicly available or be provided by the Professor.

### **Other technology requirements / equipment / material**

Current events - gathered each week by students. All other materials for this course will be available on the internet or provided by the instructor.

## **Library Liaison**

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

## **Course Requirements and Assignments**

The following activities/assignments are required in this course and will be graded: session class discussion/current events – each student is expected to bring a current event to each class session and be able to discuss the transportation planning issues it relates to; a team assignment – students will be assigned to teams to research transportation data and present findings to the class; two individual class papers – each student will be expected to complete two 5-10 page papers on transportation-related topics; and a course project – students may work individually or in pairs to complete a transportation plan and present it to their classmates.

Assignments/papers are open book, open notes, and will be sent out to students during specified times. Each student will be allowed a specified amount of time to complete each assignment/paper. Students will then be required to e-mail their completed assignments/papers to the instructor. Any technical difficulties encountered should be reported to the instructor immediately. Tentative course calendar including assignment due dates, date of final exam is “subject to change with fair notice”.

<b>Task</b>	<b>Due Date</b>	<b>% of Course Grade</b>	<b>Learning Objectives Addressed</b>
Team data assignment #1	10/29/2018	15%	1 & 2
Paper #1	11/05/2018	20%	1 & 2
Paper #2	11/19/2018	20%	2 & 3
Class Discussion/Current Events	Weekly	5%	1 - 6
Course Project/Presentation	12/10/2018	40%	1 - 6

### **Final Examination or Evaluation**

The course project is due to the instructor on the last day of class. Students are also required to make a presentation to the class discussing their course projects during the last class meeting.

Students are allowed to work individually or in groups of two students. If students work in groups, they must describe the roles and responsibilities of each team member in the completion of the project and final report. All work may be submitted via e-mail to the instructor as an attachment in MS Word or PDF format. Work may also be submitted by mail or hand delivered on or before the due date. All project reports require an Executive Summary and a Table of Contents. Students should clearly identify all of their work with the student’s name and site location on all submitted work.

### **Grading Information**

The following chart lists value of each graded assignment and its relationship to overall course grading. Each graded assignment will be returned to students with comments to ensure how specific grades were determined and assigned. Students will have an opportunity to contact the instructor at any time to discuss grades, progress, or other issues as necessary. Should a student wish to speak directly with the instructor, a mutually beneficial time will be identified and the student will contact the instructor by phone at the number provided on the first page of this syllabus.

### **Determination of Grades**

Success in this course is based on the expectation that students will attend each scheduled class. Grading will be determined through a combination of scoring on Class Discussion/Current Events, a Class Assignment, Two Class Papers, and a Course Project.

- **Class Discussion:** Students are expected to have reading completed and be prepared, on the date indicated in the schedule of assignments (below), to discuss the assigned readings and additional readings assigned or as required for the full development of classroom discussions.

- Current Events: As part of the “participation” portion of the class, students are required to bring with them to every class one current event that they may be asked to present to the class.
- Course Project and Assignments/Papers: Please see above.
- Assignments turned in late, will result in a full grade reduction. For example, if a paper were awarded and A, but was turned in late, the assigned grade would be a B. Depending on the justification, there is no limit to when assignments may be turned in late for a grade.

\*Extra credit is not available in this course.

**Sample Letter grade calculation.**

<b>Percentage</b>	<b>Grade</b>
98% - 100%	A+
97% - 94%	A
93% - 90%	A-
89% - 87%	B+
86% - 84%	B
83% - 80%	B-
79% - 77%	C+
76% - 74%	C
73% - 70%	C-
69% - 67%	D+
66% - 64%	D
63% - 60%	D-
<b>below 60%</b>	<b>F</b>

**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 Schedule

*Note:* This schedule is subject to change with fair notice. If necessary, the instructor will provide all information regarding schedule changes in class or by e-mail and through Canvas.

Week	Date	Reading
1	10/08	<p><b>Course Overview</b>            Student/Instructor Expectations            Discussion of Class Papers, Assignments and Project            Transportation Planning in Perspective</p> <p><b>I. Setting the Scene - Reading</b></p> <p>1. Introducing Urban Transportation – Susan Handy</p> <p><b>Discussion</b> - What makes a region a “good” place to locate? What makes a city a “good” place to locate? If you are not there now, what are the barriers? People and business – same or different?</p> <p>2. The Geography of Urban Freight – Laetitia Dablanc and Jean-Paul Rodrigue</p> <p><b>Discussion</b> - What is the role of government in goods movement? What about different levels of government?</p> <p>★ Urban Transportation Planning in the United States: An Historical Overview by Ed Weiner, 1997. Skim Chapters 1-9 (Get an idea of the History of the system in the US. When it began how and why and when it expanded, how and why?)  <a href="https://rosap.ntl.bts.gov/view/dot/13691">https://rosap.ntl.bts.gov/view/dot/13691</a></p>
2	10/15	<p><b>I. Setting the Scene – Reading</b></p> <p>3. Transformation and Urban Form: Stages in the Spatial Evolution of the American Metropolis – Peter O. Muller</p> <p><b>Discussion</b> – Think of a modern city that had its origins hundreds or thousands of years ago. What portions of that early city still remain? What does the transportation system look like today? How does the current transportation system accommodate those early beginnings?</p> <p>4. Impact of Information and Communication Technologies – Giovanni Circella and Patricia L. Mokhtarian</p> <p><b>Discussion</b> – How do these technologies affect your location and mobility choices now? What about in 20-25 years? Make an educated guess!</p>
3	10/22	<p><b>II. Planning for Movement Within Cities</b></p> <p>5. Theories and Models in Transportation Planning – Harvey J. Miller</p> <p>6. Regional Transportation Planning – Gian-Claudia Sciara and Susan Handy</p> <p><b>Discussion</b> – What does regional transportation planning look like in the region you live in? What impact do regional issues have on local policies?</p> <p><b>Learn More:</b>  <b>ISTEA/TEA-21/SAFETEA-LU/MAP-21/FAST Overview:</b> Statewide and Metropolitan Planning Requirements; Elements of the Transportation Planning Process</p> <p>Code of Federal Regulations (CFR), Statewide Transportation Planning; Metropolitan Transportation Planning Regulations; (23 CFR Parts 450)  <a href="https://www.gpo.gov/fdsys/granule/CFR-2001-title23-vol1/CFR-2001-title23-vol1-sec450-206">https://www.gpo.gov/fdsys/granule/CFR-2001-title23-vol1/CFR-2001-title23-vol1-sec450-206</a></p>

Data Assignment - Discussion

Paper #1 Discussion

		<p>USDOT, A Guide to Metropolitan Transportation Planning Under ISTEA - How the Pieces Fit Together - U.S.D.O.T. <a href="https://trid.trb.org/view.aspx?id=423085">https://trid.trb.org/view.aspx?id=423085</a></p> <p>USDOT / FHWA – Statewide Transportation Planning <a href="http://www.fhwa.dot.gov/planning/processes/statewide/index.cfm">http://www.fhwa.dot.gov/planning/processes/statewide/index.cfm</a></p> <p>TEA-21 - Transportation Equity Act for the 21st Century A Summary – An Overview <a href="http://www.fhwa.dot.gov/tea21/sumover.htm">http://www.fhwa.dot.gov/tea21/sumover.htm</a></p> <p>Statewide Planning <a href="http://www.fhwa.dot.gov/tea21/factsheets/statepln.htm">http://www.fhwa.dot.gov/tea21/factsheets/statepln.htm</a></p> <p>Metropolitan Planning <a href="http://www.fhwa.dot.gov/tea21/factsheets/metropoln.htm">http://www.fhwa.dot.gov/tea21/factsheets/metropoln.htm</a></p> <p>Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU) <a href="http://www.fhwa.dot.gov/safetealu/index.htm">http://www.fhwa.dot.gov/safetealu/index.htm</a> <a href="http://www.fhwa.dot.gov/safetealu/summary.htm">http://www.fhwa.dot.gov/safetealu/summary.htm</a></p> <p>MAP-21 - Moving Ahead for Progress in the 21st Century <a href="http://www.fhwa.dot.gov/map21/">http://www.fhwa.dot.gov/map21/</a> <a href="http://www.fhwa.dot.gov/map21/summaryinfo.cfm">http://www.fhwa.dot.gov/map21/summaryinfo.cfm</a></p> <p>FAST – Fixing America’s Surface Transportation <a href="http://www.fhwa.dot.gov/fastact/">http://www.fhwa.dot.gov/fastact/</a> <a href="http://www.dot.ca.gov/hq/transprog/map21/implementation/aashto_sum_fastact_121615v2.pdf">http://www.dot.ca.gov/hq/transprog/map21/implementation/aashto_sum_fastact_121615v2.pdf</a></p> <p>California Transportation Commission, California Regional Transportation Plan Guidelines <a href="https://catc.ca.gov/programs/transportation-planning">https://catc.ca.gov/programs/transportation-planning</a></p> <p>2017 Regional Transportation Plan Guidelines for Regional Transportation Planning Agencies <a href="https://dot.ca.gov/-/media/dot-media/programs/transportation-planning/documents/2017rtpguidelinesforrtpas-a11y.pdf">https://dot.ca.gov/-/media/dot-media/programs/transportation-planning/documents/2017rtpguidelinesforrtpas-a11y.pdf</a></p>
4	10/29	<p><b>II. Planning for Movement Within Cities</b> 7. Land Use, Travel Behavior, and Disaggregate Travel Data – Marlon G. Boarnet</p> <p><b>III. Policy Issues</b> 8. Mass Transit – Lisa Schweitzer</p> <p><b>Discussion</b> – How do we get more people to use mass transit?</p> <p><b>Learn More:</b> Why We Plan for Alternative Modes – The Law USC Title 23 - Highways Chapter I - FEDERAL HIGHWAY ADMINISTRATION, DEPARTMENT OF TRANSPORTATION (Parts 1 - 973) Subchapter E - PLANNING AND RESEARCH (Parts 420 - 470) Part 450 - PLANNING ASSISTANCE AND STANDARDS Sub Part A-C <a href="http://www.gpo.gov/fdsys/browse/collectionCfr.action?collectionCode=CFR&amp;searchPath=Title+23%2FChapter+I%2FSubchapter+E%2FPart+450&amp;oldPath=Title+23%2FChapter+I%2FSubchapter+E%2FPart+420&amp;isCollapsed=true&amp;selectedYearFrom=2013&amp;ycord=904">http://www.gpo.gov/fdsys/browse/collectionCfr.action?collectionCode=CFR&amp;searchPath=Title+23%2FChapter+I%2FSubchapter+E%2FPart+450&amp;oldPath=Title+23%2FChapter+I%2FSubchapter+E%2FPart+420&amp;isCollapsed=true&amp;selectedYearFrom=2013&amp;ycord=904</a></p> <p><b>Learn More:</b> Public Involvement in Transportation Decision Making <a href="http://www.fhwa.dot.gov/planning/public_involvement/index.cfm">http://www.fhwa.dot.gov/planning/public_involvement/index.cfm</a></p>
5	11/5	<p><b>III. Policy Issues</b> 9. Land Use Impact of Transportation Investments – Genevieve Giuliano and Ajay Agarwal</p> <p><b>Discussion</b> – What came first? The chicken or the egg? How do transportation and land use interact?</p> <p><b>Learn More: Land Use Impacts</b> Long Term Land Use Effects of New Rail Investment: Lessons from San Diego 2018 <a href="https://www.mdpi.com/2413-8851/2/1/6/pdf">https://www.mdpi.com/2413-8851/2/1/6/pdf</a> Boarnet, Marlon G. and Nicholas S. Compin (1999), “Transit-Oriented Development in San Diego County: Incrementally Implementing a Planning Idea,” UCI-ITS-WP-96-7. <a href="http://www.reconnectingamerica.org/assets/Uploads/bestpractice027.pdf">http://www.reconnectingamerica.org/assets/Uploads/bestpractice027.pdf</a></p>

**Data  
Assignment -  
Presentation**

**Paper #1  
Due**

**Paper #2  
Discussion**

**Final Project Discussion**

**Paper #2 Due**

		<p>The great Smart Growth Debate          Conte, Christopher (2000), "The Boys of Sprawl," Governing Magazine, May.  <a href="http://www.governing.com/topics/transportation-infrastructure/Boys-Sprawl.html">http://www.governing.com/topics/transportation-infrastructure/Boys-Sprawl.html</a></p>
6	11/12	<p><b>III. Policy Issues</b>          10. The Geography of Urban Transportation Finance - Brian D. Taylor  <b>Discussion</b> – What have been the impacts of SB1? What are the potential future impacts of SB1? What do you think about a VMT tax – Road User Charge Program? How about County sales tax increases where you live?</p> <p>11. Transportation and Environmental Impacts and Policy – Scott Le Vine and Martin Lee-Gosselin</p> <p><b>Learn More: Transportation Finance</b>          Overview of the 2017 Transportation Funding Package  <a href="http://www.lao.ca.gov/handouts/transportation/2015/Transportation-Funding-022315.pdf">http://www.lao.ca.gov/handouts/transportation/2015/Transportation-Funding-022315.pdf</a></p> <p>Overview of State Transportation Funding – CA Legislative Analysts’ Office 2017  <a href="https://catc.ca.gov/-/media/ctc-media/documents/fs-trans-funding-overview-031017-a11y.pdf">https://catc.ca.gov/-/media/ctc-media/documents/fs-trans-funding-overview-031017-a11y.pdf</a></p> <p>Transportation Funding in California – Caltrans Division of Transportation Planning - Office of Transportation Economics (OTE) – 2018 <a href="https://dot.ca.gov/programs/transportation-planning/economics-data-management/transportation-economics/transportation-funding-in-ca">https://dot.ca.gov/programs/transportation-planning/economics-data-management/transportation-economics/transportation-funding-in-ca</a></p> <p>State Budget 101 Video Series CA State Budget -  <a href="http://www.lao.ca.gov/Videos/player?playlistId=4">http://www.lao.ca.gov/Videos/player?playlistId=4</a></p>
7	11/19	<p><b>III. Policy Issues</b>          12. Transportation and Energy – David L. Greene  <b>Discussion</b> – There is no free lunch, so what do we do?</p> <p>13. Social Equity and Urban Transportation – Evelyn Blumenberg  <b>Discussion</b> – How can we address social equity issues? What does “balance” look like?</p>
8	11/26	<p>✓ <b>Project Management</b></p> <ul style="list-style-type: none"> <li>○ What is the Process?</li> <li>○ Why is it Important</li> <li>○ How is it linked to funding?</li> </ul> <p><b>Learn More:</b>          Caltrans Project Development Procedures Manual (PDPM)  <a href="https://dot.ca.gov/programs/design/manual-project-development-procedures-manual-pdpm">https://dot.ca.gov/programs/design/manual-project-development-procedures-manual-pdpm</a>          Project Management Body of Knowledge (PMBOK)  <a href="https://www.pmi.org/pmbok-guide-standards">https://www.pmi.org/pmbok-guide-standards</a></p> <p>✓ <b>Transportation Data: Transportation System Performance Measurement, Transportation System Management and Management Systems</b></p> <p><b>Learn More:</b>          Performance Measurement Fundamentals  <a href="http://www.ops.fhwa.dot.gov/perf_measurement/index.htm">http://www.ops.fhwa.dot.gov/perf_measurement/index.htm</a>          Performance Management Under MAP 21/FAST  <a href="http://www.fhwa.dot.gov/map21/pm.cfm">http://www.fhwa.dot.gov/map21/pm.cfm</a>          Development of Performance Measures for the FHWA’s Strategic Plan  <a href="http://www.fhwa.dot.gov/legsregs/pmeasure.htm">http://www.fhwa.dot.gov/legsregs/pmeasure.htm</a></p>



		<p>✓ <b>Travel Demand Forecasting</b></p> <ul style="list-style-type: none"> <li>○ What is it?</li> <li>○ Why is it important?</li> <li>○ How is done?</li> </ul> <p><b>Learn More:</b>  Land Use/Population/Employment Forecasting  <a href="https://www.psrc.org/search?fulltext=forecasting&amp;f%5B0%5D=field_topic%3A12">https://www.psrc.org/search?fulltext=forecasting&amp;f%5B0%5D=field_topic%3A12</a></p> <p><i>Click on listed resources to learn more about forecasts.</i></p> <p><a href="https://www.fhwa.dot.gov/planning/tmip/">https://www.fhwa.dot.gov/planning/tmip/</a></p> <p>Read to get an idea of what is out there and how they are used!</p> <p>FYI - For More Information on Integrated Transportation Land Use Models  <a href="https://search.usa.gov/search?utf8=%E2%9C%93&amp;affiliate=dot-fhwa&amp;query=integrated+transportation+and+land+use+models+">https://search.usa.gov/search?utf8=%E2%9C%93&amp;affiliate=dot-fhwa&amp;query=integrated+transportation+and+land+use+models+</a></p> <p>Travel Demand Forecasting  <a href="https://video.search.yahoo.com/video/play;_ylt=A2KIo9gZuo5W5yQAbzT7w8QF;_ylu=X3oDMTExdnJhZDlxBHNIYwNzcgRzbGsDdmlkBHZ0aWQDQjA5NDcEZ3BvcwMxNQ_-?p=Introduction+To+Travel+Demand+Modeling&amp;vid=91e93767f9134d99ebe536fab4a48a4&amp;url=http%3A%2F%2Ftse4.mm.bing.net%2Fth%3Fid%3DOVP.V4889e813a73713ea2e95072b30c00746%26pid%3D15.1%26h%3D225%26w%3D300%26c%3D7%26rs%3D1&amp;rurl=https%3A%2F%2Fwww.youtube.com%2Fwatch%3Fv%3Dh2rxC-0rZLU&amp;tit=Overview+of+the+four-step+transport+demand+model&amp;c=14&amp;h=225&amp;w=300&amp;l=3364&amp;sigr=11bn8u7i9&amp;sigt=11gkceoh9&amp;sigi=13116kb05&amp;age=1372226558&amp;fr2=p%3As%2Cv%3Av&amp;fr=yfp-t-695&amp;tt=b">https://video.search.yahoo.com/video/play;_ylt=A2KIo9gZuo5W5yQAbzT7w8QF;_ylu=X3oDMTExdnJhZDlxBHNIYwNzcgRzbGsDdmlkBHZ0aWQDQjA5NDcEZ3BvcwMxNQ_-?p=Introduction+To+Travel+Demand+Modeling&amp;vid=91e93767f9134d99ebe536fab4a48a4&amp;url=http%3A%2F%2Ftse4.mm.bing.net%2Fth%3Fid%3DOVP.V4889e813a73713ea2e95072b30c00746%26pid%3D15.1%26h%3D225%26w%3D300%26c%3D7%26rs%3D1&amp;rurl=https%3A%2F%2Fwww.youtube.com%2Fwatch%3Fv%3Dh2rxC-0rZLU&amp;tit=Overview+of+the+four-step+transport+demand+model&amp;c=14&amp;h=225&amp;w=300&amp;l=3364&amp;sigr=11bn8u7i9&amp;sigt=11gkceoh9&amp;sigi=13116kb05&amp;age=1372226558&amp;fr2=p%3As%2Cv%3Av&amp;fr=yfp-t-695&amp;tt=b</a>  Overview of the four-step transport demand model-Video – 42:40</p> <p>Travel Demand Forecasting: Parameters and Techniques (2012)  <a href="#">Basic Four-Step Model of Travel Demand Forecasting</a>  Activity Based Travel Demand Models: A Primer 2015  <a href="http://onlinepubs.trb.org/onlinepubs/shrp2/SHRP2_C46.pdf">http://onlinepubs.trb.org/onlinepubs/shrp2/SHRP2_C46.pdf</a>  *Through Page 16. You are welcome to read the entire document of course. Pay special attention to the concepts behind activity-based modeling.</p>
9	12/03	<p><b>III. Policy Issues</b></p> <p>14. Looking into the Future – Genevieve Giuliano and Susan Hanson</p> <p><b>The Future of Transportation</b>  <b>Video – Watch in Class -</b> <a href="http://www.ted.com/talks/bill_ford_a_future_beyond_traffic_gridlock">http://www.ted.com/talks/bill_ford_a_future_beyond_traffic_gridlock</a></p> <p><b>Dream More:</b>  <a href="http://www.futuristspeaker.com/future-scenarios/2050-and-the-future-of-transportation/">http://www.futuristspeaker.com/future-scenarios/2050-and-the-future-of-transportation/</a>  <a href="http://www.gizmag.com/future-transport/22959/">http://www.gizmag.com/future-transport/22959/</a>  <a href="http://dailyreckoning.com/the-future-of-transportation/">http://dailyreckoning.com/the-future-of-transportation/</a>  <a href="https://www.youtube.com/results?search_query=future+of+transportation">https://www.youtube.com/results?search_query=future+of+transportation</a></p>
10	12/10	<p><b>Presentation of Class Projects – Discussion/Critique</b></p> <p>Turn in projects before class – e-mail time stamp!</p>

*Dr. Nick's e-mail:  
talosjaka@yahoo.com*

*Class Projects - Due Before  
Class on 12/10 !!!!  
e-mail me....*