

URP6716 (Section 4790)
Transportation Policy and Planning

Class Meets:
Tuesdays (Period 2-4) 8:30 a.m.-11:30 a.m. in Rinker 220

Instructor: Dr. Ruth L. Steiner
Office: 464 Architecture
Telephone: 352-294-1492
e-mail: rsteiner@dcp.ufl.edu

Office Hours: Please sign up at my wiki: <http://steiner-office-hours.wikispaces.com/>
Tuesdays: 2:00-4:00 pm¹ (unless otherwise shown on wiki) and by appointment
E-learning in Canvas: <http://lss.at.ufl.edu>

Course Overview

This course deals with urban transportation planning and policy. The course is an overview of transportation planning issues largely in a metropolitan context. Because urban transportation is a broad field, the course will be a survey of a number of topics of importance in urban transportation planning.

In the first part of the course, we will establish a common understanding of policy-making processes, identify critical issues in transportation policy, and review the history of U.S. transportation policy at the federal, state, and local level. We then discuss how transportation planners understand and plan for movement within cities, including the four-step transportation modeling process, a general discussion of various aspects of the planning process and the use of data in transportation planning. Finally, we discuss a variety of policy issues related to the transportation system: public transportation, land use impacts of transportation investments, transportation and energy, urban transportation finance, social and environmental justice issues, and transportation and the environment. Case study examples and examples from the United States and other countries will be used throughout the course.

At the completion of this course, students should have a basic understanding of urban transportation planning and policy in its multiple dimensions. Students should also have developed in-depth knowledge of an area of transportation planning that is the subject of their research paper.

This course is a required course for Urban Planning students who are pursuing the specialization in Growth Management and Transportation. It also meets an elective core requirement in Section B.2 (The Built Environment: Land Use/Growth Management/Design/Transportation/Housing/Real Estate) for students in the Masters of Urban and Regional Planning. It is open to graduate students and advanced undergraduates in related disciplines.

Objectives of the Course

After successful completion of this course, students should be able to:

- 1) Develop a basic understanding of urban transportation planning processes and policy in its multiple dimensions.
- 2) Show a common understanding of transportation policy-making processes.
- 3) Identify and analyze critical issues in transportation policy and planning and the historic development of a metropolitan region.
- 4) Review the history of US transportation policy at the federal, state and local level and consider the elements that might be applicable in other country contexts.
- 5) Discuss how transportation planners understand and plan for movement within cities, including the four-step transportation modeling process, various aspects of the planning process, and the use of technology, including geographic information systems (GIS), in transportation planning.

¹ These hours are tentative pending decisions about research and committee meetings. Also, when I travel on Tuesdays, I may schedule office hours on other days of the week. Please check my wiki (<http://steiner-office-hours.wikispaces.com/>) for the latest information on my office hours.

- 6) Discuss a variety of policy issues related to the transportation system: public transportation, land use impacts of transportation investments, transportation and energy, the geography of urban transportation finance, social and environmental justice in transportation, and transportation and the environment.
- 7) Apply concepts of transportation policy and planning to a specific transportation planning policy context.

Structure of the Course

This course will include a wide range of topics that we will discuss through a variety of methods. Each new topic is introduced with a lecture, special readings and, as appropriate, presentations by guest lecturers. The course consists of four elements: reading assignments, lectures and class discussion, an in-class presentation, and written assignments. Because so many topics are being presented in this course, I will attempt to respond to areas of special interest to members of the class. This will be possible through the written assignments and the presentations. In conjunction with the University of Florida's emphasis on technology in teaching, E-learning in Canvas will be utilized in this class. Students should already be familiar with word processing, and Internet-browsing software. E-learning in Canvas (<http://lss.at.ufl.edu>) may be new to some of you but it is relatively simple to use. If you do not know how to use E-learning in Canvas, contact the UF Computing Help Desk directly (<https://wiki.helpdesk.ufl.edu/FAQs/E-Learning>) or (352) 392-4357.

Teaching Philosophy

The assignments of this course and all courses that I teach have been designed to allow students to practice the kinds of skills they will use as planning professionals. The exercises have been designed to develop the following skills that will be important in professional practice: (1) critical thinking; (2) presentation (verbal) communication; (3) evaluation and critique; (4) argumentation; and (5) written communication skills. Consistent with the expectations of professional conduct in this course, all written assignments, except minor in-class exercises, must be typed. No hand-written assignments will be accepted.

Students will be asked to exercise their critical thinking skills throughout the course. In the summary of the readings and in the class discussion, they will read and analyze the perspective of the various authors, understand the assumptions being made by the authors, summarize and present the argument to the class, and contrast the readings with other course materials. In the writing assignments, students will be asked to consider the diverse perspectives on transportation and develop their own perspective. All students will develop their presentation skills through the presentation of their research paper. In the weekly class discussion, students will be required to respond to questions from the instructor and other members of the class. Each student will be required to evaluate the arguments of the authors of the required readings. In the research paper and in the comments of the readings, students will be required to develop a basic argument and present it in a manner that is easily understood (thus developing good written communication skills). These skills are important because in professional practice, transportation professionals need to write in a manner that clearly states the goals of the writing, develops the argument persuasively and is written in a manner that is easily understood.

Course Readings

The following book, which can be purchased online at: <http://mtsplan.com/services.html>, is the required text for the course:

Meyer, M. D. and Miller, E. J. (2014). *Transportation Planning: A Decision-Oriented Approach*. Available (for purchase) at: <http://mtsplan.com/services.html>

Additional required readings, available online, are listed in the syllabus. Supplemental readings may be added to the course as needed and will generally be posted to E-learning in Canvas.

Additional Readings

The field of transportation planning is well-documented on sources on the internet. Here is a partial list of organizations that can provide a national perspective on certain aspects of transportation planning. This list is only partial but can be helpful in

- [Bureau of Transportation Statistics](#) was organized within the US Department of Transportation in the early 1990s to centralize the development, organization and dissemination of transportation information and statistics. The website links to a wide range of official federal and state transportation documents and data.

- [Transportation Research Board](#) is one of six major divisions of the National Research Council— a private, nonprofit institution that is the principal operating agency of the National Academies in providing services to the government, the public, and the scientific and engineering communities. The mission of the TRB is “to promote innovation and progress in transportation through research.” “In an objective and interdisciplinary setting, TRB “facilitates the sharing of information on transportation practice and policy by researchers and practitioners; stimulates research and offers research management services that promote technical excellence; provide expert advice on transportation policy and programs; and disseminates research results and encourages their implementation.”
- [The Atlantic CityLab](#) has an ongoing series on the [Future of Transportation](#) that began earlier this year. CityLab “informs and inspires the people who are creating the cities of the future – and those who want to live there.”
- [Reason Foundation](#) advances a free society by developing, applying, and promoting libertarian principles, including individual liberty, free markets, and the rule of law in a variety of policy areas, including transportation.
- [Eno Center for Transportation](#) is a neutral, non-partisan think-tank that promotes policy innovation and provides professional development opportunities across the career span of transportation professionals
- [The Urban Institute](#) “gathers data, conducts research, evaluates programs, offers technical assistance overseas, and educates Americans on social and economic issues — to foster sound public policy and effective government.” Their Program on Innovation in Infrastructure addresses issues in transportation, communications and the energy grid including privatization, performance measurement, economic efficiency and inter-generational communities.
- [Metropolitan Policy Program | Brookings Institution](#) - is a nonprofit public policy organization based in Washington, DC whose mission is to conduct high-quality, independent research and, based on that research, to provide innovative, practical recommendations that advance three broad goals: strengthen American democracy; foster the economic and social welfare, security and opportunity of all Americans; and secure a more open, safe, prosperous and cooperative international system.
- [Smart Growth America](#) is an organization comprised of national, state and local partners that advocates for communities that provide more options for people to get around to work, the grocery store and other destinations.
- [Reconnecting America](#) is a national nonprofit that advises civic and community leaders on how to overcome community development challenges to create better communities for all
- [Center for Transit-Oriented Development \(CTOD\)](#) is a national organization providing innovative practices, policy reform, research, analysis, and investment tools to support the implementation of transit-oriented development
- [Transportation for America \(T4\)](#) is a coalition of 500 organizations representing coalition partners, including mayors, council members, and other elected officials, national and local business, labor, transit, environmental, safety and freight groups and others who advocate for a transformational federal transportation policy and investments that are economically sound, respond to markets and improve the lives of people.
- [Association of Metropolitan Planning Organizations \(AMPO\)](#) - is a nonprofit, membership organization established in 1994 to serve the needs and interests of "metropolitan planning organizations (MPOs)" nationwide. Federal highway and transit statutes require, as a condition for spending federal highway or transit funds in urbanized areas, the designation of MPOs, which have responsibility for planning, programming and coordination of federal highway and transit investments.
- [American Public Transportation Association \(APTA\)](#) is an organization that has represented public transportation organizations since 1882. APTA members are public organizations that are engaged in the areas of bus, paratransit, light rail, commuter rail, subways, waterborne passenger services, and high-speed rail. Members also include large and small companies who plan, design, construct, finance, supply, and operate bus and rail services worldwide. Government agencies, metropolitan planning organizations, state departments of transportation, academic institutions, and trade publications are also part of their membership.
- [Streetfilms](#) is a non-profit that “produces short films showing how smart transportation design and policy can result in better places to live work and play”.
- [Pedestrian and Bicycle Information Center](#) is funded by the US Department of Transportation to provide information on bicycling and walking.
- [Walkable and Livable Communities Institute](#) has a mission to “inspire, teach, connect, and support communities in their efforts to improve health and well-being through better built environments.”
- [League of American Bicyclists](#) “represents bicyclists in the movement to create safer roads, stronger communities, and a bicycle-friendly America. Through information, advocacy and promotion, [they] work to celebrate the freedom cycling brings...”

- [Alliance for Bicycling and Walking](#) creates, strengthens and unites state/province and local bicycle and pedestrian advocacy organizations.

Student Responsibilities and Grading

Grades will be based upon five components: a policy/planning research paper, a metropolitan transportation profile, policy debates, class attendance and participation, and attendance at a transportation meeting, and weighted as follows:

Assignment and due date	Points
Planning/Policy Research Paper	
Paper Topic Paragraph – September 13	10
Outline of Paper – October 11	40
Abstract – December 9	50
Paper – December 9	450
Presentation on Research Paper – December 7 (presentation in class on December 8)	100
Metropolitan Transportation Profile	
Metropolitan Transportation Profile, Part 1 – September 20	100
Metropolitan Transportation Profile, Part 2 – October 18	100
Policy Debates (1 debates @ 200 points each) – as assigned	200
Class Attendance and Participation – ongoing	100
Transportation-Related Data – August 30	
Travel Diary – October 5	
Class Attendance	
Transportation Meeting	50
TOTAL POINTS	1250

Assignments

All assignments should be submitted to E-learning in Canvas by 11:55 p.m. on the due date unless otherwise specified. All written assignments (except minor in-class assignments) must be type-written, like all professional work. Students at the graduate level should be prepared to write a critical argument rather than simply describe relationships. If you have any questions about what is expected at the graduate level, please talk to the instructor.

Policy Debates: Students will be required to participate in a policy debate on current transportation issues. The format for the debate is a two-minute opening argument for the pro-side and a two-minute opening argument for the con-side followed by a few minutes of questions from class members followed by a one-minute rebuttal for each side. During the class prior to the debate, you will be assigned a position to take in the debate. Upon reading the required reading(s) associated with the class (and other authoritative sources available on the web), you will prepare a two-to-four page, double-spaced position paper outlining the arguments **both for and against** the question of the debate. During the class, be prepared to present your position and arguments supporting or rebutting that position and respond to questions and comments. The grade will be based equally on your written and oral arguments. Your research paper cannot be on the same topic as your debate paper unless you complete your debate early in the semester.

Metropolitan Transportation Profile: In this assignment, you will develop an overview of the land use and transportation of a comprehensive statistical area (CSA) (see p. 104 of the following document for a list of CSAs: <https://www.whitehouse.gov/sites/default/files/omb/bulletins/2013/b13-01.pdf> (see also <http://www.planning.dot.gov/mpo.asp> for a pop-down menu of the metropolitan planning organizations in the US)). In part one you should provide the following information: (1) the CSA's/MPO's population (distribution, age, demographics, socio-economic, etc.); (2) the CSA's/MPO's economy (e.g., major sectors and employers, historic trends, economic strengths and weaknesses); and (3) the CSA's/MPO's geography and the impacts that geography has had on its transportation and land use. In part two, you should describe the transportation and land use in the CSA/MPO, including (1) all components of the region's transportation system; (2) land uses and development patterns historically, currently, and in the future; and (3) pedestrian, bicycle, and transit facilities. This information can be provided in one of several formats that summarizes the information, including: a powerpoint, prezi, keynote presentation with the associated comments, a set of tables, charts, figures and maps (see

<http://writingcenter.unc.edu/handouts/figures-and-charts/> for instructions on using tables and figures) or any other format that includes both visual and written communication. The written summary should include one or more complete paragraphs that describe what the table, chart, figure or map shows. If you prefer to complete a profile of a region outside of the United States, please discuss this choice with your instructor. The profile summary should provide the reader (who you should assume is unfamiliar with the region) with a comprehensive understanding of transportation and land use in the CSA/MPO.

The profile or parts of it can be used for the final paper for the course.

Transportation Meeting: During the semester, each student will be required to attend one meeting (or at least two hours of it!) of a transportation policy making body in the Gainesville area and submit a written summary of the meeting. With this assignment, please submit a copy of the meeting agenda (if available) or a link to it. A schedule of recurring meetings will be posted to E-learning in Canvas.

I will not accept excuses at the end of the semester that you were not able to attend any of these meetings because you could not find one that fits your schedule. If you absolutely can't attend any of these meetings, let the instructor know by September 15th, so we can make other arrangements. Failure to turn in a summary of one of these meetings by December 15th will result in zero (0) for this particular assignment.

Class Attendance and Participation. (10% of your grade): An important requirement for this course is class attendance and participation. Attendance is mandatory on time. **Please arrive to class on time. Tardiness will count as an absence.** Late arrivals and departures distract your colleagues and your instructor. If you expect to miss a class, please notify the instructor via e-mail in advance of class time. Excessive absences may justify a lower grade, expulsion, or a failing grade. Requirements for class attendance and make-up assignments, and other work in this course are consistent with university policies that can be found at: <https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>

Students will be expected to be prepared for class and participate in the class discussion. The following rules apply to the discussion in class:

- Be critical of ideas, not people
- Listen to everyone's ideas even if you don't agree
- Try to understand all sides of an issue
- Talk through issues, don't try to change other's minds
- Stay focused; stick to the subject
- Avoid overly long stories, anecdotes, or examples
- Don't dominate the conversation; let all participate
- Remember there are no right answers; most policies involve tradeoffs.

In summary, good participation requires careful listening, responding, asking questions and making comments to others in the classroom. Each student should complete the readings prior to class and be prepared to clarify understanding in the class discussion or contribute to thoughtful discussion of issues. If you have problems with the readings, you should see the instructor during office hours so that we can discuss this. If you are not comfortable talking in class, make an effort to talk to the instructor during office hours.

Electronic technology (laptops, netbooks, cellphones, etc.) are a part of our daily activities. The challenge is to ensure that they take a proper role in teaching and learning. Because this course is designed to maximize participation, students should plan to minimize the interference of technology in the classroom. Students will turn off cellphone and other hand held, tablet and other devices that are not a direct part of the educational experience in the classroom. Students can use laptops, tablets, and netbooks as long as they are used to take notes related to the class discussion. Any student who misuses technology may receive a lower or failing grade, or be kicked out of the class. The instructor reserves the right to collect and set aside technology if it distracts from what is happening in the classroom.

Research Paper: Every student is required to complete a term paper on a transportation topic of his or her choice. The preparation of this paper will be a useful exercise in preparing for your Master's thesis and your professional work. Students will be required to define and investigate a topic of their choice in depth. Each student should plan to meet with the instructor before October 20 to discuss his/her paper topic. If you have a particularly complicated topic, or project, and would like to write a paper with another member of the class, please let the instructor know so we can discuss this option. Papers are expected to be 18-25 double-spaced pages long (with margins no greater than 1 inch on each side and no larger than a 12 point font size), with citations of at least 8 different sources (not including Wikipedia or other websites used to define concepts).

A one-paragraph topic statement is due Sunday, September 13. A paper outline including a properly formatted list of at least 5 references is due Sunday, October 11. You may submit a draft paper for preliminary review no later than Sunday, November 1 (no grade will be issued). The final paper is due Tuesday, December 8. PLEASE NOTE: You must submit an electronic copy of the final paper via Canvas AND a hard copy in the instructor's mailbox in the departmental office. On December 8, you will give a short presentation (no more than 15 minutes, or less depending upon the number of students in the course) about your paper. This presentation should include a description of the topic, the method used and a brief explanation of the principal finding.

The statement of the proposed research topic should include a clear statement of the research to be conducted, the importance of the research (it should answer the question, "so what?"), and the method you expect to use to gather the information (and/or the data source you expect to use). You may want to interview policy makers regarding the topic of your paper, you may manipulate data that is available through public sources, you may observe and count transportation activity, or you may choose to use a combination of these and other methods. Unless you choose to do a critical literature review, you will be required to do some original research. Summarizing someone else's books or journal article does not constitute graduate or advanced undergraduate work. If you choose to conduct interviews or surveys, you will be required to obtain permission to do so from the University of Florida Institutional Review Board (IRB-02). See <http://irb.ufl.edu/irb02/> for additional information on their requirements. If you collect information from public officials, you are likely to receive an exemption but you will still need to fill out the paperwork.

The paper, like all good research should contain the following sections: (1) abstract or executive summary; (2) introduction – a summary of the topic and a brief introduction to the project; (3) background and literature review – explains the context of the project; (4) methodology – explain the methodology used to gather your data for your project; (5) results/finding – explains what you learned when you conducted your research; (6) discussion – interprets the results in light of previous research on this topic; (7) recommendations and conclusions – summarizes the research and explains what the reader should do to respond to your results.

The literature review/background should categorize the previous research according to the results or arguments made by the authors. The literature review does not need to summarize every applicable article in detail. It should, however, define the terms of the debate on this topic and hint at the direction the paper will take. If you are using a different methodology than is usually used to understand well-documented relationship, be sure to include a discussion of methodologies in your literature review. If the paper is on a topic on which there is little literature but there are several policy studies, these prior studies should be summarized.

The data used in this paper can come from a variety of sources, including interviews with policy makers, analysis of primary or secondary data, observations of the situation being explored, or, other forms of data that support the argument that you are arguing. The research you complete as a part of the metropolitan transportation profile can be expanded to explore a specific transportation-related issue in your chosen region. If you would like some assistance in the development of your topic or the data collection, please see the instructor.

The topic of this paper can range from the practical to the theoretical. Local governments and the University often have topics of interest for research. Please see your instructor if you would like to discuss potential paper topics.

Use of Reference Material

All references should follow the format of used by the Journal of the American Planning Association (JAPA) and based upon Publication Manual of the American Psychological Association, Sixth Edition (2010), and The Chicago Manual of Style, 15th Edition. This method is called the parenthetical citations – reference list style or the reference list style.

Citations should appear in the text as follows: (Meyer & Miller, 2014) when using an idea from the text; or (Meyer and Miller, 2014, p. 2-33) when using a specific quote on the indicated page (in this case, page 2-33). A good source of information on the APA format can be found on the website of the Writing Center at the University of Wisconsin – Madison: <http://www.wisc.edu/writing/Handbook/DocAPA.html>. Students from other departments may use a commonly accepted format for citations from their own field; please discuss this option with the instructor before you complete the outline of the paper.

Assistance for Writing Papers

The online resources to assist you in writing are extensive. The Dial Center for Written and Oral Communication (<http://www.cwoc.ufl.edu/>) and the Writing Program (<http://writing.ufl.edu>) at the University of Florida can assist you in several different aspects of writing. You can use the writing lab to get one-on-one help on every area of composition from basic grammar and mechanics to topics like essay organization, style, and argument.

Many other universities offer online handbooks on writing. I have found the following three particularly useful: the University of North Carolina at Chapel Hill (<http://writingcenter.unc.edu/handouts/>), the University of Wisconsin (<http://www.wisc.edu/writing/Handbook/>), and Purdue University (<http://owl.english.purdue.edu/>). I found the following handouts particularly helpful while editing papers; <http://writing.wisc.edu/Handbook/CommonErrors.html> and <http://www.wisc.edu/writing/Handbook/ClearConciseSentences.html>. The online handbooks described above discuss many aspects of writing papers. Students at the graduate level should be prepared to write a critical argument rather than simply describe relationships. If you have any questions about what is expected at the graduate level, please see the instructor.

Grading

I expect that all graduate students should be able to accomplish the basic requirements for the course -- a “B” grade, but do not hesitate to mark lower when a student does not meet the expectation of adequately showing understanding of the material. “A” grades require performance beyond the minimum or average -- e.g., quality, depth, synthesis of ideas, originality or creativity. Meeting deadlines matters, too! Each deadline must be honored or the grade may be lowered accordingly. The instructor will also be more sympathetic to a request for an extension one week before a deadline than one day before a deadline.

The University of Florida allows instructors to give the following grades: A, A-, B+, B, B-, etc. A grade of “A-” on a specific assignment may indicate that the work is close to an “A” but the “A-” will be averaged with other grades to determine the final grade. An “A-” means that a student almost, but not quite, achieved “A” work. Requirements for class attendance and assignments and other work in this course are consistent with university policies that can be found at: <https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>.

University of Florida Grade Policy

Percentage or points earned in class	93%-100%	90%-92.9%	87%-89.9%	83%-86.9%	80%-82.9%	77%-79.9%	73%-76.9%	70%-72.9%	67%-69.9%	63%-66.9%	60%-62.9%	Below 60%
Letter grade equivalent	A	A-	B+	B	B-	C+	C	C-	D+	D	D-	F

Letter Grade	A	A-	B+	B	B-	C+	C	C-	D+	D	D-	E	WF	I	NG	S-U
Grade Points	4.0	3.67	3.33	3.0	2.67	2.33	2.0	1.67	1.33	1.0	0.67	0.0	0.0	0.0	0.0	0.0

For greater detail, see the Registrar’s Grade Policy regulations at <https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>.

Academic Honesty

Students MUST follow the University’s policy regarding unauthorized use of materials (i.e., cheating), prohibited collaboration, and the use of copyrighted materials. Students are responsible for reading and abiding by the

University's student code of conduct (<https://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/>) and the University Honor Code. UF students are bound by the Honor Pledge which states, "We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment. The Honor code (<https://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/>) specifies a number of behaviors that are in violation of this code and the possible sanctions. In particular, there are rules governing plagiarism. If you directly quote someone or use an idea from another source, you must attribute that idea or those words to an original author. If you are unclear about what constitutes plagiarism, please make an appointment with the instructor to discuss this. You can also consult the above website and the graduate catalog for further information. In the context of this course, if you directly quote someone or use an idea from another source, you must attribute that idea or words. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you are unclear about what constitutes plagiarism or other aspects of academic honesty, please make an appointment with the instructor to discuss this.

Help for Student/Accommodations for Students with Disabilities

The instructor will respect the needs for accommodations for students with disabilities consistent with the University's policy on such accommodations. Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, www.dso.ufl.edu/drc/) by providing appropriate documentation. Once registered, students will receive an accommodation letter that must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester. I am happy to provide reasonable accommodations for students who register with the DRC, and ask that students inform the instructor of any request no later than the end of the second week of the course.

At times students may experience periods of increased stress when challenges related to decisions, goals and relationships arise. Often these experiences are accompanied by thoughts and emotions that produce sadness, anxiety, frustration, anger and confusion. If you are experiencing excessive stress in your life that are affecting your ability to meet the deadlines for this course, please speak to the instructor or contact the Counseling and Wellness Center (<http://www.counseling.ufl.edu/cwc/Default.aspx>; (352) 392-1575) to make an appointment or contact the University Police Department at 352-392-1111 or 911 for emergencies. If you observe or know of anyone in distress, please reach out to U Matter, We Care (www.umatter.ufl.edu), 352-294-CARE (2273) or #UMatterUF

Course Evaluations

Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at <https://evaluations.ufl.edu>. Evaluations are typically open during the last two to three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at: <https://evaluations.ufl.edu/results/>.

Changes

As the course develops, I may make changes in the readings or assignments, and scheduling. If there are topics that you are interested in that you do not feel are adequately covered in the course, let the instructor know. This is your course, and we will make time for the exploration of new ideas, within the limits of time and reason. You should also be willing to invest some of your time into finding materials and leading discussion on those new ideas. If you define a new topic, this presentation will substitute for the required presentation.

Course Outline

August 25

Overview of the Course

Course Syllabi Handed Out

Assignments and Readings Explained

No readings.

***For September 2 class: Go to the BTS website or other transportation related website and search for data on a topic that is of interest to you. Prepare a written explanation of data or a statistic about transportation that you learned about and submit it to Canvas by Sunday, August 30. This should be a transportation *statistic* or other *datum* and not simply something new about transportation. In class on September 1, each student will briefly describe what s/he learned in these data sources.

The following are a couple of guides to acronyms used in transportation planning. Please familiarize yourself with the guides and use them as necessary throughout the semester.

- Florida Department of Transportation Planning Pages:
<http://www.dot.state.fl.us/planning/glossary/> (contains links to other transportation glossaries)
- One Thousand (1000) Friends of Florida:
<http://www.1000friendsofflorida.org/building-better-communities/transportation/dictionary-of-transportation-acronyms/>
(provides glossary of terms for a more general audience)

September 1

Transportation Planning: Definitions and Contexts

Speaker: Marlie Sanderson, Transportation Planning Director, Gainesville Urbanized Area Metropolitan Transportation Planning Organization (MTPO)

Required Readings to be completed before class:

Meyer & Miller, Chapter 1 and Chapter 3, pages 3-2 to 3-27

Skim:

US Department of Transportation (USDOT), Federal Highway Administration. n.d. *National Household Travel Survey: Our Nation's Travel NHTS Highlights of the 2001 National Household Travel Survey, BTS03-05*. Accessed on August 27, 2012 at: <http://nhts.ornl.gov/publications.shtml>

The site contains information on several topics under the category of Publications (with a drop-down menu for Reports, Journals, Briefs, Profiles, Presentations and Compendium of Uses). Please find one or more topics that interest you and skim them.

September 8

Transportation Planning: Definitions and Contexts (con't)

Legislation and Regulation

Transportation from a Systems Perspective

Required Readings to be completed before class:

Meyer & Miller, Chapter 1 (review), Appendix A and Chapter 3, pages 3-2 to 3-27 and 3-73 to 3-89.

United States Department of Transportation (USDOT) Federal Highway Administration (FHWA). *Moving Ahead for Progress in the 21st Century (MAP-21)*. Available at: <http://www.fhwa.dot.gov/map21/>

*** Proposed paper topic due on Sunday, September 13

September 15

Transportation Planning and Decision Making

Required Readings to be completed before class:

Meyer & Miller, Chapter 2

Marsden, G., Frick, K. T., May, A. D. & Deakin, E. (2010) "Transfer of Innovative Policies Between Cities to Promote Sustainability," *Transportation Research Record: Journal of the Transportation Research Board*, No 2163, pp. 89-96.

Marsden, G., Frick, K. T., May, A. D. & Deakin, E. (2010) How do cities approach policy innovation and policy learning? A study of 30 policies in Northern Europe and North America. *Transport Policy* (2010)
<http://dx.doi.org/10.1016/j.tranpol.2010.10.006>

***Metropolitan Transportation Profile Part One due on Sunday, September 20.

September 22

Transportation System Impacts Transportation and Urban Form

Required Readings to be completed before class:

Meyer & Miller, Chapter 3, pages 3-27 to 3-73

Peter Gordon and Harry W. Richardson. "Are Compact Cities a Desirable Planning Goal?" and Reid Ewing. Is Los Angeles-Style Sprawl Desirable? *Journal of the American Planning Association* 63, 1: 95-126.

Marlon G. Boarnet (2011): *A Broader Context for Land Use and Travel Behavior, and a Research Agenda*, *Journal of the American Planning Association*, 77:3, 197-213
To link to this article: <http://dx.doi.org/10.1080/01944363.2011.593483>

Landis, John. 1999. "Middle Age Sprawl: BART and Urban Development," *Access* 14, pp. 2-15 (see <http://www.uctc.net/access/access14.pdf>)

Review:

Transportation Research Board/National Institute of Medicine of the National Academies Committee on Physical Activity, Health, Transportation, and Land Use. 2005. "Current State of Knowledge," Does the Built Environment Influence Physical Activity? Examining the Evidence. Washington, DC: Transportation Research Board. Pages 151-218. Available at: <http://onlinepubs.trb.org/onlinepubs/sr/sr282.pdf>

September 29

Transportation and Urban Form (con't) The Impact of Information Technologies

Required Readings to be completed before class:

Meyer & Miller, Chapter 3 (review)

Hesse, Markus. 2002. "Location Matters," *Access* Vol. 21, pp. 22-26.
<http://www.uctc.net/access/21/Access%2021%20-%2005%20-%20Location%20Matters.pdf>

Deakin, Elizabeth & Frick, Karen T. and Shively, Kevin. (2012). "Dynamic Ridesharing" *Access* 40: 23-28.

Zhu, P. (2012) Are Telecommuting and Personal Travel Complements or Substitutes?" *The Annals of Regional Science* , 48, 2, 619-639, <http://dx.doi.org/10.1007/s00168-011-0460-6>

*** For October 6 class: Keep a journal of all trips taken this week (until Monday morning) and submit them to Canvas by Monday, October 5 at 12:00 p.m. At a minimum keep track, **in tabular form**, of the following information: origin, destination, time of travel, mode of travel, distance traveled, length of time, and any other information you consider important. Please bring six copies to the class on October 6.

October 2 (Friday)

Field Trip to Orlando, Tampa or Jacksonville

October 6
Data Management and Use In Decision Making
Transportation Demand Analysis
Urban Activity Systems

Required Readings to be completed before class:
Meyer & Miller, Chapters 4 - 6

Biemborn, Edward. 1995. *A Transportation Modeling Primer*. Milwaukee, WI: Center for Urban Transportation Studies. <http://www4.uwm.edu/cuts/primer.htm>

Review:
U. S. Department of Transportation Federal Highway Administration and Urban Mass Transportation Administration. 1977. *An Introduction to Urban Transportation Demand Forecasting*. Chapters 1-3
<http://ntl.bts.gov/DOCS/UT.html>

*** Draft Outline of Research Paper and List of References due on Sunday, October 12

October 13
Transportation Demand Analysis – continued
Activity-based Models

Required Readings to be completed before class
Meyer & Miller, Chapters 4 - 6

Walker, J. 92011, Fall) Beyond Rationality in Travel Demand Models, *Access* 39, 8-15. Available at:
http://uctc.net/access/39/access39_demand_models.pdf

Transportation Research Board. (2010) "Advanced Practices in Travel Forecasting: A Synthesis of Highway Practice. NCHRP Synthesis 406. Washington, DC: Transportation Research Board, page 1-56 . Available at:
(http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_syn_406.pdf)

Koppelman, Frank S. 2005. "Innovations in Travel Modeling" *Access* 27: 30-33.
<http://www.uctc.net/access/27/Access%2027%20-%2006%20-%20Innovations%20in%20Traffic%20Modeling.pdf> or
<http://www.uctc.net/access/access27.pdf>

Review:
U. S. Department of Transportation Federal Highway Administration and Urban Mass Transportation Administration. 1977. *An Introduction to Urban Transportation Demand Forecasting*. Chapters 4-6 <http://ntl.bts.gov/DOCS/UT.html>

*** Metropolitan Transportation Profile due Sunday, October 18

October 20 and October 27
Transportation System Management
Transportation Demand Management
Transportation Supply Management
Guest Speaker: Matthew Muller, Gainesville Regional Transit System (RTS) (not confirmed)

Required Readings to be completed before class
Meyer & Miller, Chapter 7 (Review Chapter 3)

Dellinger, Matt. (2009). "How to Convince a Conservative to Support Public Transportation (William Lind Explains), The Infrastructurist: America Under Construction. Available at: <http://www.infrastructurist.com/2009/06/29/how-to-convince-conservatives-to-support-public-transportation-william-lind-explains/>

WalkBoston. (1998) Improving Pedestrian Access to Transit: An Advocacy Handbook. Available at: http://safety.fhwa.dot.gov/ped_bike/docs/fta.pdf

Cervero, Robert. 2001. Walk-and-Ride: Factors Influencing Pedestrian Access to Transit. *Journal of Public Transportation* 3, 4

Recommended Readings:

Hall, Sir Peter. 2007 (Fall). "Beyond the Automobile?" Access 30:10-15. Available at: <http://www.uctc.net/access/30/Access%2030%20-%2003%20-%20Beyond%20the%20Auto.pdf>

Williams, K. M. and Marshall. M. A.. *Managing Corridor Development: A Municipal Handbook* <http://www.cutr.usf.edu/pdf/corridor.pdf> and *Ten Ways to Manage Access in Your Community*. <http://www.cutr.usf.edu/research/10ways.pdf>

Gordon J. Fielding and Daniel B. Klein. 1997. "Hot Lanes: Introducing Congestion Pricing One Lane at a Time." *Access* 11, pp. 11-15.

Black, Alan. 1993. "The Recent Popularity of Light Rail Transit in North America," *Journal of Planning Education and Research*, 12(3): 150-159.

Recommended Readings:

Cervero, Robert and John Landis. 1997. "Twenty Years of the Bay Area Rapid Transit System: Land Use and Development Impacts," *Transportation Research A*, Vol. 31, No. 4, pp. 309-333.

Webber, Melvin, "The BART Experience -- What Have We Learned?" *The Public Interest* Vol. 12, No. 3, pp.79-110 (Fall 1976).

Transportation Research Board (TRB). (2012). National Cooperative Highway Research Program (NCHRP) Synthesis 436: Local Policies and Practices that Support Safe Pedestrian Environments, Washington, DC: Transportation Research Board. Available at: http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_syn_436.pdf

Moore, James E. II. 1993. "Commentary on 'The Recent Popularity of Light Rail Transit in North America,'" *Journal of Planning Education and Research* 13 (1): 50-52.

Black, Alan. 1993. "Author's Response," *Journal of Planning Education and Research* 13(1): 53-54.

Richmond, Jonathan E. D. 1998. "The Mythical Conception of Rail Transit in Los Angeles," *Journal of Architectural and Planning Research* 15(4): 294-320.

November 3

Environmental Impacts of the Transportation System – Overview

Efficient Transportation Decisionmaking System (ETDM)

Guest Speaker: Mr. Peter McGilvray, Florida Department of Transportation (FDOT) Environmental Management Office (EMO) (not confirmed)

Required Readings to be completed before class:

Meyer & Miller, Chapter 3 Section 2 – Transportation System Impacts (review) and Chapter 7, Section 5 – Impact Models

United States Department of Agriculture. (2011, July) "Towards Understanding the Ecological Impact of Transportation Corridors" Available at: http://www.fs.fed.us/pnw/pubs/pnw_gtr846.pdf

Transportation Research Board. 2002. *NCHRP Synthesis 305. Interaction Between Roadways and Wildlife Ecology: A Synthesis of Highway Practice* Washington, DC: Transportation Research Board. Retrieved January 7, 2008 at: http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_syn_305.pdf

Meyer, M., Flood, M., Keller, J., Lennon, J., McVoy, G., Dorney, C., ... & Smith, J. (2014). *Strategic Issues Facing Transportation, Volume 2: Climate Change, Extreme Weather Events, and the Highway System: Practitioner's Guide and Research Report* (No. Project 20-83 (5)) Retrieved from: http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_rpt_750v2.pdf (read Part 1:Practitioner's Guide)

Florida Department of Transportation. n.d. "Efficient Transportation Decisionmaking System. Retrieved from: <http://www.dot.state.fl.us/emo/ETDM.shtm> (browse website).

November 10

Environmental Impacts of the Transportation System – Energy and Air Quality

Required Readings to be completed before class:

Meyer & Miller, Chapter 3 Section 2 – Transportation System Impacts (review) and Chapter 7, Section 5 – Impact Models

Center for Climate and Energy Solutions. (2011, January) Reducing Greenhouse Gas from U.S. Transportation. Prepared for the Pew Center on Global Climate Change. Available at: <http://www.c2es.org/docUploads/reducing-transportation-ghg.pdf>

Mashayekh, Y., Jaramillo, P., Samaras, C., Hendrickson, C.T., Blackhurst, M. MacLean, H. L., & Matthews, H. S. (2012) Potentials for Sustainable Transportation in Cities to Alleviate Climate Change Impacts, *Environ Sci Technol.* 46, 2529-2537. Available at: <http://pubs.acs.org/doi/pdfplus/10.1021/es203353g>

Sorensen, P., Light, T., Samaras, C., Ecola, L., Daehner, E. M., Ortiz, D. S., ... & Pickrell, S. (2014). Strategic Issues Facing Transportation, Volume 5: Preparing State Transportation Agencies for an Uncertain Energy Future (No. Project 20-83 (04)) Retrieved from: http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_rpt_750v5.pdf

Frankel, E. H. & Menzies, T. (2011, November- December) "Policy Options for Reducing Energy Use and Greenhouse Gas Emissions from US Transportation" Summary: <http://onlinepubs.trb.org/onlinepubs/trnews/trnews277SR307.pdf>; Full report: <http://onlinepubs.trb.org/onlinepubs/sr/sr307.pdf>

Transportation Research Board (TRB) (2009) "Driving and the Built Environment: The Effects of Compact Development on Motorized Travel, Energy Use, and CO2 Emissions, Special Report 298. Washington, DC: Transportation Research Board, p. 31-94. Available at: <http://onlinepubs.trb.org/Onlinepubs/sr/sr298.pdf> Summary at: <http://onlinepubs.trb.org/Onlinepubs/sr/sr298summary.pdf>

Recker, W.W. & Kang, J.E. Charge It: The Promise of Plug-in Electric Hybrids UCTC Policy Brief 2011-01. Available at: <http://www.uctc.net/research/briefs-pb-2011-01.shtml>

Ogden, Joan. 2005. "The Transition to Hydrogen" Access 27: 10-16. <http://www.uctc.net/access/access27.pdf>

Lipman, Timothy. 2004. "Hydrogen Highways," Access 27: 17-23 Available at: <http://www.uctc.net/access/27/Access%2027%20-%2004%20-%20Hydrogen%20Highways.pdf>

Small, Kenneth A. and Kurt Van Dender. 2008. "If Cars Were More Efficient, Would We Use Less Fuel?" Access 31: 8-13. Retrieved from: <http://www.uctc.net/access/31/Access%2031%20-%2003%20-%20Cars%20More%20Efficient.pdf>

Turrentine, Tom, Kenneth Kurani and Rusty Heffner. 2008. "Fuel Economy: What Drives Consumer Choice? Access 31: 14-19. Retrieved from: <http://www.uctc.net/access/31/Access%2031%20-%202004%20-%20Consumer%20Choice.pdf>

Winer, a., Zhu, Y. and Paulson, S. (2014, Spring) Carmageddon or Carmaheaven? Air Quality Results of a Freeway Closure. Retrieved from: http://www.uctc.net/access/44/access44_carmaheaven.shtml.

Various authors. 2009. "Transportation Technologies for the 21st Century," Access 34 Available at: <http://www.uctc.net/access/access34.shtml>

Mark J. Kutzbach. 2009. "Motorization in Developing Countries: Causes, Consequences, and Effectiveness of Policy Options," *Journal of Urban Economics* 65: 154–166. Available at: <http://dx.doi.org/10.1016/j.jue.2008.10.002>

Kutzbach, M. (2010, Fall) Megacities and Megatraffic Access 37: 31-35. Available at: http://www.uctc.net/access/37/access37_megacities_traffic.pdf

November 17

Transportation System and Project Evaluation Social Equity Issues in Transportation

Required Readings to be completed before class:
Meyer and Miller, Chapter 8

Litman, T., & Brenman, M. (2012). A New Social Equity Agenda for Sustainable Transportation. Victoria Transport Policy Institute, Retrieved from: <http://www.vtpi.org/equityagenda.pdf>

Farber, N., Shinkle, D., Lynott, J., Fox-Grage, W., & Harrell, R. (2011). Aging in place: A state survey of livability policies and practices, Retrieved from: <http://assets.aarp.org/rgcenter/ppi/liv-com/aging-in-place-2011-full.pdf>

Houston, Douglas, Jun Wu, Paul Ong, & Arthur Winer. (2006, Fall). "Down to the Meter: Localized Vehicle Pollution Matters," Access 29: 22-27 Available at: <http://www.uctc.net/access/29/Access%2029%20-%2004%20-%20Down%20to%20the%20Meter.pdf>

November 24

Programming, Funding and Finance Transportation Costs

Required Readings to be completed before class:
Meyer and Miller, Chapter 9

DeLucchi, Mark. (1996, Spring). "Total Cost of Motor-Vehicle Use," Access 8: 7- 13, Available at: <http://www.uctc.net/access/access08lite.pdf> .

DeLucchi, M. A. & Murphy, J. J. (2008, May) How Large are Tax Subsidies to Motor-Vehicle Users in the US? *Transport Policy* 15, 3, 196-208. Available at: <http://dx.doi.org/10.1016/j.tranpol.2008.03.001>

Beimborn, Edward and Robert Puentes. 2003. "Highways and Transit: Leveling the Playing Field in Federal Transportation Policy" The Brookings Institution Series on Transportation Reform. Washington, DC: Brookings Institution Center on Urban and Metropolitan Policy.
http://www.brookings.edu/reports/2003/12metropolitanpolicy_beimborn.aspx (select 'download')

Puentes, Robert. 2008. "A Bridge to Somewhere: Rethinking American Transportation for the 21st Century, Policy Brief. Washington, DC: Brookings Institution. Available at: http://www.brookings.edu/~media/Research/Files/Reports/2008/6/transportation%20puentes/06_transportation_puentes_policybrief.PDF

Nuworsoo, Cornelius. 2005. "Discounting Transit Passes" Access 26: 22-27.
<http://www.uctc.net/access/26/Access%2026%20-%2005%20-%20Discounting%20Transit%20Passes.pdf>

December 1
Programming, Funding and Finance
Transportation Finance

Required Readings to be completed before class:
Meyer and Miller, Chapter 9 (review)

Sorenson, P. (2013, Fall). From Fuel Taxes to Mileage Fees Access 43 Retrieved from:
http://www.uctc.net/access/43/access43_fuel_taxes.shtml

Altshuler, A. (2013, Spring) Equity as a Factor in Surface Transportation Politics. Access 42. Retrieved from:
http://www.uctc.net/access/42/access42_equityinpolitics.shtml

Wachs, Martin. 2003. *Improving Efficiency and Equity in Transportation Finance*. The Brookings Institution Series on Transportation Reform. Washington, DC: Brookings Institution Center on Urban and Metropolitan Policy.
<http://www.brookings.edu/research/reports/2003/04/transportation-wachs>

Transportation Research Board. "Equity Implications of Evolving Transportation Finance Mechanisms, Special Report 303. Washington, DC : Transportation Research Board. Summary :
<http://onlinepubs.trb.org/onlinepubs/trnews/trnews278SR303.pdf>; Full Report :
<http://onlinepubs.trb.org/onlinepubs/sr/sr303.pdf>

Transportation Research Board. "The Fuel Tax and Alternatives for Transportation Funding
<http://onlinepubs.trb.org/onlinepubs/sr/sr285TRNewsSummary.pdf>
<http://onlinepubs.trb.org/onlinepubs/sr/sr285.pdf>

Boarnet, M. G. and DiMento, J. F. (2004, Fall)The Private Sector's Role in Highway Finance : Lessons from SR91. Access 25 : 26-31. Available at :
<http://www.uctc.net/access/25/Access%2025%20-%2005%20-%20Lessons%20From%20SR%2091.pdf>

King, D., Manville, M. and Shoup, D. 2008. "For Whom the Road Tolls: The Politics of Congestion Pricing, Access 31: 2-7. <http://www.uctc.net/access/31/Access%2031%20-%2002%20-%20For%20Whom%20the%20Road%20Tolls.pdf>

Morris, Eric. 2006 (Spring). How Privatization Became a Train Wreck" Access28: 18-26.
<http://www.uctc.net/access/28/Access%2028%20-%2004%20-%20How%20Privatization%20Became%20a%20Train%20Wreck.pdf>

December 8
Student Presentations

***Papers due in Instructor's Mailbox and e-learning by 12:00 p.m. (noon) on Tuesday, December 8.