

UPP 563 – Transportation Management

Spring Semester 2012

M 6:00 – 9:00 PM 2LH 321

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SYLLABUS and COURSE OUTLINE

Course Description

The course introduces the student to the theories and practical applications involved in the general management of a transit system.

Learning Goals

- Gain knowledge of the history of the development of public transit systems in the U. S. and the role of government legislation and policy, including federal surface transportation funding, legislation and regulation .
- Understand the structure of public transit in the Chicago region, including the formation and reorganization of the RTA and the roles of the Service Boards, state and local government, and the metropolitan planning organization. There will also be discussions on the role of freight, intermodal and railroad transportation on regional development and its impact on the area's commute.
- Comprehend the functional areas of managing a transit system including strategic and operations planning, funding and finance, operations and service delivery, capital programming, marketing, human and labor relations, and performance metrics.

Outcome Measurement

The course will be taught using a lecture/discussion format. Grades will be based on various requirements* and weights as listed below:

Class Participation	20 %
Assignments	25%
Group Project	25%
Final Exam	30%
Total	100%

*Late coursework will be reduced one letter grade.

Academic Honesty

Students are responsible for leaning and adhering to the academic integrity policy of UIC as stated in the AY2010-2011 MUPP Student Handbook.

Proposed Schedule

January 9 (Week 1): Introduction & History

Fielding, Chapters 1,2,3;

Vuchic, Chapter 1

Bronzini

January 16 (Week 2): Martin Luther King, Jr., Day. No classes.**January 23 (Week 3): State & Regional Issues**

CMAP, GO TO 2040 Comprehensive Regional Plan (short version) pp. 14-18, 23-33, 88-115

CMAP, GO TO 2040 Comprehensive Regional Plan (full version) pp. 11-21, 25-30, 33-53, 243-322

RTA, pp. 1-69

Allen, Chapters 1,5,10,12

January 30 (Week 4): Federal Legislative Issues

APTA, APTA Recommendations on Federal Public Transportation Authorizing Law

APTA, APTA PRIMER ON TRANSIT FUNDING

APTA, The World Economy is Moving. Can America Keep Up?

February 6 (Week 5): Strategic Planning, Urban Development & Land Use

Transit Cooperative Research Program (TCRP), *Synthesis 59*

Transit Cooperative Research Program (TCRP), *Report 102*, Chapters 1, 2, 3

Transportation Planning Capacity Building Program

February 13 (Week 6): Transit Funding, Finance & Fare Pricing

Transit Cooperative Research Program (TCRP), *Report 31 A*

Transit Cooperative Research Program (TCRP), *Report 95*

Transit Cooperative Research Program (TCRP), *Report 129*

Transit Cooperative Research Program (TCRP) *Legal Research Digest, Number 13*

Fielding, Chapter 5;

February 20 (Week 7): Operations Planning, Transit Operations & Intelligent Transportation Systems

Fielding, Chapter 8;

Vuchic, Chapters 4, 7, 9

Transit Cooperative Research Program (TCRP), *Synthesis 34*

February 27 (Week 8): Capital Programming & Transit Infrastructure

Transit Cooperative Research Program (TCRP), *Report 131*

Transit Cooperative Research Program (TCRP), *Research Results Digest 78*

March 5 (Week 9): Asset Condition Assessment & Prioritization Tools

Transit Cooperative Research Program (TCRP), *Synthesis 92*

Transit Cooperative Research Program (TCRP), *Research Results Digest 101*

March 12 (Week 10): Transportation Safety & Security

Transit Cooperative Research Program (TCRP), *Synthesis 27*

Transit Cooperative Research Program (TCRP), *Report 66*

March 19 (Week 11): Spring vacation. No classes.

March 26 (Week 12): Transit Demand Management, Commuter Benefits & Marketing

Fielding, Chapter 9

Transit Cooperative Research Program (TCRP), *Report 95 Chapter 19*

Transit Cooperative Research Program (TCRP), *Report 107*

April 2 (Week 13): Human Resources and Labor Relations

Fielding, Chapter 6, 7

Transit Cooperative Research Program (TCRP), *Report 77*

April 9 (Week 14): Performance Measurement & Customer Satisfaction

Fielding, Chapter 4

Transit Cooperative Research Program (TCRP), *Report 47*

Transit Cooperative Research Program (TCRP), *Research Results Digest 56*

April 16 (Week 15): Freight & Intermodal

Transit Cooperative Research Program (TCRP), *Report 52, Chapters 1, 2*

Transit Cooperative Research Program (TCRP), *Report 14*

April 23(Week 16): Summary & Student Presentations

Fielding, Chapters 10, 11

Group Projects Due

April 30: (Week 17) Final examinations.

Course Texts and Readings

Allen, John G., *From Centralization to Decentralization: The Politics of Transit in Chicagoland*, Ph.D. diss., Massachusetts Institute of Technology, 1996.

American Public Transportation Association (APTA), *APTA Recommendations on Federal Public Transportation Authorizing Law*, Washington, D.C., Adopted October 2008, Revised November 2009,

American Public Transportation Association (APTA), *APTA PRIMER ON TRANSIT FUNDING The Safe Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users, Extensions, and Other Related Laws, FY 2004 Through FY 2011*, Washington, D.C., Revised November 17, 2011

American Public Transportation Association, *The World Economy is Moving. Can America Keep Up?* Washington, D.C., March 2007

Bronzini, Michael S., PhD, P.E., *Surface Transportation: The Case for Growth*, Free Congress Foundation Center September 20, 2011

Chicago Metropolitan Agency for Planning (CMAP), *GO TO 2040 Comprehensive Regional Plan (full version)*, 2011

Chicago Metropolitan Agency for Planning (CMAP), *GO TO 2040 Comprehensive Regional Plan (short version)*, 2011

Fielding, Gordon J., *Managing Public Transit Strategically*, Jossey-Bass Publishers, New Jersey, 1987

Regional Transportation Authority (RTA), *Moving Beyond Congestion 2007-the Year of Decision Regional Transportation Strategic Plan*, 2007

Transit Cooperative Research Program (TCRP) *Legal Research Digest, Number 13*, Transportation Research Board, Washington D.C., August 1999

Transit Cooperative Research Program (TCRP), *Report 14, Institutional Barriers to Intermodal Transportation Policies and Planning in Metropolitan Areas*, Transportation Research Board, Washington D.C., 1996

Transit Cooperative Research Program (TCRP), *Report 31 A, Funding Strategies for Public Transportation*, Transportation Research Board, Washington D.C., 1998

Transit Cooperative Research Program (TCRP), *Report 47, A Handbook for Measuring Customer Satisfaction and Service Quality*, Transportation Research Board, Washington D.C., 1999

Transit Cooperative Research Program (TCRP), *Report 52, Joint Operation of Light Rail Transit or Diesel Multiple Unit Vehicles with Railroads*, Transportation Research Board, Washington D.C., 1999

Transit Cooperative Research Program (TCRP), *Report 66, Effective Practices to Reduce Bus Accidents*, Transportation Research Board, Washington D.C., 2001

Transit Cooperative Research Program (TCRP), *Report 77, Managing Transit's Workforce in the New Millennium*, Transportation Research Board, Washington D.C., 2002

Transit Cooperative Research Program (TCRP), *Report 95 Chapter 12, Transit Pricing and Fares Traveler Response to Transportation System*, Transportation Research Board, Washington D.C., 2004

Transit Cooperative Research Program (TCRP), *Report 95 Chapter 19, Employer and Institutional TDM Strategies Traveler Response to Transportation System Changes*, Transportation Research Board, Washington D.C., 2004

Transit Cooperative Research Program (TCRP), *Report 102, Transit-Oriented Development in the United States: Experiences, Challenges, and Prospects*, Transportation Research Board, Washington D.C., 2005

Transit Cooperative Research Program (TCRP), *Report 107, Analyzing the Effectiveness of Commuter Benefits Programs*, Transportation Research Board, Washington D.C., 2005

Transit Cooperative Research Program (TCRP), *Report 129, Local and Regional Funding Mechanisms for Public*, Transportation Research Board, Washington D.C., 2009

Transit Cooperative Research Program (TCRP), *Report 131, A Guidebook for the Evaluation of Project Delivery Methods*, Transportation Research Board, Washington D.C., 2009

Transit Cooperative Research Program (TCRP), *Research Results Digest 56, A Summary of TCRP Report 88: A Guidebook for Developing a Transit Performance-Measurement System*, Transportation Research Board, Washington D.C., 2003

Transit Cooperative Research Program (TCRP), *Research Results Digest 78, MANAGING CAPITAL COSTS OF MAJOR FEDERALLY FUNDED PUBLIC TRANSPORTATION PROJECTS*, Transportation Research Board, Washington D.C., 2006

Transit Cooperative Research Program (TCRP), *Research Results Digest 101, FUNDING FOR INFRASTRUCTURE MAINTENANCE: ACHIEVING AND SUSTAINING A STATE OF GOOD REPAIR*, Transportation Research Board, Washington D.C., 2011

Transit Cooperative Research Program (TCRP), *Synthesis 27, Emergency Preparedness for Transit Terrorism*, Transportation Research Board, Washington D.C., 1997

Transit Cooperative Research Program (TCRP), *Synthesis 34, Data Analysis for Bus Planning and Monitoring*, Transportation Research Board, Washington D.C., 1998

Transit Cooperative Research Program (TCRP), *Synthesis 59, Strategic Planning and Management in Transit Agencies A Synthesis of Transit Practice*, Transportation Research Board, Washington D.C., 2005

Transit Cooperative Research Program (TCRP), *Synthesis 92, Transit Asset Condition Reporting, A Synthesis of Transit Practice*, Transportation Research Board, Washington D.C., 2011

Transportation Planning Capacity Building Program, *The Transportation Planning Process: Key Issues A Briefing Book for Transportation Decisionmakers, Officials, and Staff*, September 2007

Vuchic, *Urban Transit, Systems and Technology*, John Wiley & Sons, Inc, 2007