

George Mason University
Department of Civil, Environmental & Infrastructure Engineering

CEIE 462/562
(3:3:0)

Urban Transportation Planning

Spring 2009
M 4:30-7:10 pm, DK 1006

Texts: Meyer, Michael D. and Eric J. Miller, *Urban Transportation Planning, 2nd edition*, McGraw-Hill, New York, NY (2001).

Transportation Impact Analyses for Site Development, *Pub. No. RP-020C*, Institute of Transportation Engineers, Washington, DC (2006).

| <u>Date</u> | <u>Topic</u> | <u>Assignment</u> |
|-------------|---|----------------------------------|
| 1/26 | Introduction; The Planning Process | Ch. 1, 2 |
| 2/2 | Urban Travel Characteristics | Ch. 3 |
| 2/9 | Transportation Studies; Data Collection; Sampling | Ch. 4; App. B |
| 2/16 | Urban Transportation Modeling System; Trip Generation | Ch. 5, 247-278 |
| 2/23 | Trip Distribution; Site Impact Studies | Ch. 5, 278-282 ITE Text |
| 3/2 | Modal Choice | Ch. 5, 282-283 Ch. 5, 290-303 |
| 3/9 | SPRING BREAK | |
| 3/16 | Demand Topics MID-TERM EXAM | Ch. 5, 303-326 |
| 3/23 | Traffic Assignment | Ch. 5, 283-289 Ch. 7, 437-439 |
| 3/30 | Urban Activity Systems | Ch. 6 |
| 4/6 | Transportation System Performance Models | Ch. 7, 385-445 |
| 4/13 | Environmental Impacts; Air Quality and Conformity | Ch. 7, 445-474 |
| 4/20 | System and Project Evaluation; Implementation Issues | Ch. 8, 9 |
| 4/27 | MPO Forecasting Processes; Travel Model Improvement Program | |
| 5/4 | Current Topics in Transportation Planning TERM PROJECT PRESENTATIONS | |
| 5/11 | FINAL EXAM | |

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Grading

| | |
|----------------------|------------|
| Exams (2 @ 25% each) | 50% |
| Homework Problems | 30% |
| Term Project | <u>20%</u> |
| | 100% |

Term Project

Each student will conduct a site traffic impact study for a project in the Northern Virginia area. Teams will be permitted, but not required. Details will be furnished by the fifth week of the semester.

Instructor

Michael S. Bronzini, Ph.D., P.E.

Dewberry Chair Professor & Dept. Chair, CEIE

S&T II, Room 109 Office Hours: Wednesday, 3:00 p.m. to 6:00 p.m. or by Appointment

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