MANAGING TRANSPORTATION AND LAND USE INTERACTIONS
COURSE AGENDA (AS OF JUNE 2006)

DAY ONE

8:00 – 8:30 a.m. Sign in and complete introduction questionnaire. Introductions and student learning objectives

8:30 – 9:30 a.m. MODULE 1: History and Context

Learning Objective:
- Understand history and foundation for transportation and land use planning today including key federal decisions and actions that have shaped both professions.

8:30 a.m. 1.A HISTORY AND CONTEXT (45 min.)
1.A.1 Colonial America (1630 -1915)
1.A.2 Post World War I (1915-1940)
1.A.3 Post World War II (1940-1970)
1.A.5 Smart Growth and New Urbanism (1990-2006)

9:15 a.m. 1.B MANZANITA AVENUE CASE STUDY (30 min.)

9:45 – 11:45 a.m. MODULE 2: Regulatory Environment

Learning Objective:
- Recognize and appreciate the legal framework and mandates for transportation and land use planning in California.

9:45 a.m. 2.A TRANSPORTATION REGULATIONS (30 min.)
2.A.1 Federal Transportation Regulations
2.A.2 State Transportation Regulations
2.A.3 Local Transportation Regulations

10:00 a.m. BREAK (15 min.)
10:15 a.m. 2.B PLANNING REGULATIONS (1hr.)
   2.B.1 General Plans
   2.B.2 Specific Plans
   2.B.3 Other Plans
   2.B.4 Zoning
   2.B.5 Development Agreements
   2.B.6 Subdivision Map Act

11:15 a.m. 2.C EL DORADO COUNTY CASE STUDY (45 min.)

12:00 – 1:15 p.m. LUNCH (1hr. 15 min.)

1:15 – 1:45 p.m. MODULE 2: Regulatory Environment (Continued)

1:15 a.m. 2.D.1 CEQA (30 min.)

1:45 – 4:30 p.m. MODULE 3: Transportation Planner’s Toolbox

Learning Objective:
- Learn about the strengths and limitations of the traditional four-step travel demand model.
- Understand how travel demand models quantify the relationships between land use and transportation.
- Appreciate the uncertainty associated with travel demand forecasting and the need for sensitivity testing.
- Learn the basics of traffic operations analysis.
- Learn about the strengths and limitations of available tools and the resources necessary to apply them successfully.
- Understand the influence of input assumptions and data on output results.

1:45 p.m. 3.A TRAVEL DEMAND MODELS (1 hr.)
   3.A.1 Traditional four-step models
   3.A.2 Activity-based models
   3.A.3 Transportation/Land Use interaction models
   3.A.4 Sketch planning models

2:45 p.m. 3.B MODELING EXERCISE (30 min.)

3:15 p.m. BREAK (15 mins)
3:30 p.m.  3.C. TRAFFIC OPERATIONS MODELS (1hr.)
   3.C.1 Travel demand model and traffic operation model links
   3.C.2 Traditional techniques based on the Highway Capacity Manual
   3.C.3 Advanced techniques using micro-simulation

4:30 – 5:00 p.m. MODULE 4: Student Questions

4:30 p.m.  4.A OPEN FORUM (30 min.)
   Provide a means for students/instructors to discuss and provide feedback regarding the applicability of class material to actual problems faced by students in their current jobs.

5:00 P.M. END OF DAY
DAY TWO

8:00 – 9:30 a.m. MODULE 5: Land Use Planner’s Toolbox

Learning Objective:

- Learn about the strengths and limitations of available tools and the resources necessary to apply them successfully.
- Recognize how to match the “right” tool to specific situations.
- Learn where to find relevant information for practitioners.

8:00 a.m. 5.A LAND USE PLANNING TOOLS (1 hr.)
5.A.1 Data Collection
5.A.2 Analysis
5.A.3 Public Outreach
5.A.4 Plan Development
5.A.5 YUBA CITY GENERAL PLAN CASE STUDY

9:00 a.m. 5.B YUBA CITY ROLE PLAY (30 min.)

9:30 – noon MODULE 6: Performance Measures

Learning Objective:

- Learn how to calculate a wide variety of performance measures from data commonly available in most agencies.
- Understand how performance measures are used in various planning applications.
- Recognize the “bias” in typically used performance measures.

9:30 a.m. 6.A PERFORMANCE MEASURES (1 hr. 15 min.)
6.A.1 Equity
6.A.2 Examples
6.A.3 Traffic Operations
6.A.4 Transit, Bicycling, and Walking
6.A.5 LOS
6.A.6 Land Use

6.B VAN NESS AND DAVIS CASE STUDIES

10:45 a.m. BREAK (15 min.)

11:00 a.m. 6.C NARROW STREETS ROLE PLAY (45 min.)

11:45 – 1:00 p.m. LUNCH (1 hr. 15 min.)
1:00 – 3:00 p.m.  **MODULE 7: Outcomes -- Effects on Urban Form**

**Learning Objective:**
- Understand how land use decisions affect transportation.
- Understand how transportation decisions affect land use.
- Appreciate how land use and transportation affect urban form.
- Examine the interplay between agencies.

1:00 p.m.  7.A  AGENCY DYNAMICS (30 min.)
1:30 p.m.  7.B  DETERMINANTS OF URBAN FORM (30 min.)

2:00 p.m.  7.C  SPRING LAKE SPECIFIC PLAN EXERCISE (1hr.)

3:00 p.m.  BREAK (15 min.)

3:15 – 4:30 p.m.  **MODULE 8: Transportation Infrastructure Studies**

**Learning Objective:**
- Learn how performance measures affect infrastructure design through their use in design policies, guidelines, and standards
- Recognize the importance of uncertainty in the variables that affect infrastructure design.
- Appreciate the different views of interest groups when considering alternatives.

3:15 p.m.  8.A  LAND USE AND PHYSICAL ENVIRONMENT RELATIONSHIP (15 min.)
3:30 p.m.  8.B  INTERCHANGE CASE STUDY (15 min.)

3:45 p.m.  8.C  INTERCHANGE DESIGN ROLE PLAY (45 min.)
4:30 – 5:00 p.m.  **MODULE 9: Course Review**

4:30 p.m.  **9.A QUESTIONS, COMMENTS, AND EVALUATION FORMS (30 min.)**
Instructors will solicit final questions and comments from students, collect written evaluation forms, and distribute certificates.

5:00 p.m.  **CONGRATULATIONS!**