I. Instructor:

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II. Textbook (may be accessed at http://www.fhwa.dot.gov/pedbike/)

FHWA UNIVERSITY COURSE ON BICYCLE AND PEDESTRIAN TRANSPORTATION: STUDENT WORKBOOK

Federal Highway Administration  
Washington, DC, July 2006

III. Lecture Outline: Attached is an outline of the topics to be covered during the semester. Reading assignments in the text are also indicated. Additional reading assignments may be made during the semester.

IV. Grading: Grades will be determined by averaging the mid-term exam (25%), the final exam (25%), homework problems (35%), and the term paper (15%).
# Course Outline

<table>
<thead>
<tr>
<th>Topic</th>
<th>Reading Assignment</th>
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| **1. Introduction**  
Need for Pedestrian and Bicycle Mobility  
Transportation Demand Management  
Walking and Bicycling in the US Today | Sect. 1.1-1.4 and 1.6-1.7  
Handout  
Sect. 2.1-2.5 |
| **2. Characteristics of Pedestrians**  
Ambulation/Safety Concerns  
Groups of Particular Concern | Sect. 8.1-8.5 |
| **3. Planning**  
Federal Requirements/Funding Opportunities  
Policies to Encourage Non-Motorized Travel  
Adapting Suburban Communities for Peds and Bikes  
Traffic Calming | Sect. 1.5 and Sect. 4.1-4.4  
Sect. 5.1-5.5 and Sect.6.1-6.4  
Sect. 7.1-7.8  
Sect. 20.1-20.6 |
| **4. Issues Common to Pedestrians and Bicycles**  
Pedestrian and Bicycle Crashes  
Tort Liability and Risk Management  
Pedestrian and Bicycle Connections to Transit  
Multi-Use Trails  
Pedestrians and Bicycles in Work Zones  
Facility Maintenance  
Education, Encouragement, and Enforcement | Sect. 3.1-3.11  
Sect. 22.1-22.6 and handouts  
Sect. 18.1-18.9  
Sect. 19.1-19.10  
Sect. 21.1-21.4  
Sect. 16.1-16.8  
Sect. 24.1-24.7 |
5. **Pedestrian Facility Design**  
   Walkways, Sidewalks and Public Spaces  
   Sect. 9.1-9.7
   Pedestrian Facility Capacity and Level of Service  
   Handouts
   Pedestrian Signs and Pavement Markings  
   Sect. 10.1-10.11
   Pedestrians at Intersections  
   Sect. 11.1-11.10
   Midblock Crossings  
   Sect. 12.1-12.11
   Accessibility (ADA)  
   Sect. 8.6 and handouts

6. **Bicycle Facility Design**  
   Characteristics of Bicyclists  
   Handouts
   Shared Roadways  
   Sect. 14.1-14.8
   Bike Lanes  
   Sect. 15.1-15.8
   Bicycle Parking and Storage  
   Sect. 17.1-17.4

7. **Wrap-Up**  
   International Approaches to Ped/Bike Facilities  
   Sect. 23.1-23.4
   Other Topics