CE 436/CE 531--PEDESTRIAN AND BICYCLE TRANSPORTATION

Spring 2008

I. Instructor:

R.W. Eck Room 651-C ESB

Phone: 293-3031, x 2627

Fax: 293-7109

Email: Ronald.Eck@mail.wvu.edu

II. Textbook (may be accessed at http://www.tfhrc.gov/safety/pedbike/pubs/05085/index.htm)

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%).

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Course Outline

	Topic	Reading Assignment
1.	Introduction Need for Pedestrian and Bicycle Mobility	Sect. 1.1-1.4 and 1.6-1.7
	Transportation Demand Management	Handout
	Walking and Bicycling in the US Today	Sect. 2.1-2.5
2.	Characteristics of Pedestrians Ambulation/Safety Concerns	Sect. 8.1-8.5
	Groups of Particular Concern	
2	Dlanning	
3.	Planning Federal Requirements/Funding Opportunities	Sect. 1.5 and Sect. 4.1-4.4
	Policies to Encourage Non-Motorized Travel	Sect. 5.1-5.5 and Sect.6.1-6.4
	Adapting Suburban Communities for Peds and Bikes	Sect. 7.1-7.8
	Traffic Calming	Sect. 20.1-20.6
4.	Issues Common to Pedestrians and Bicycles Pedestrian and Bicycle Crashes	Sect. 3.1-3.11
	Tort Liability and Risk Management	Sect. 22.1-22.6 and handouts
	Pedestrian and Bicycle Connections to Transit	Sect. 18.1-18.9
	Multi-Use Trails	Sect. 19.1-19.10
	Pedestrians and Bicycles in Work Zones	Sect. 21.1-21.4
	Facility Maintenance	Sect. 16.1-16.8
	Education, Encouragement, and Enforcement	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