

# Kainan University

Department of Transportation Technology and Supply Chain Management

(Fall/Spring) Spring Semester 2007 Year Course Syllabus

6

Course Code No.	Course Title	Instructor	Subject	Level of Course
400020100	Chinese: 大眾運輸規劃	James Chu 朱致遠	<input type="checkbox"/> required <input checked="" type="checkbox"/> elective	Year: 2 Class(AorB): A
	English: Mass Transportation Planning	e-mail/phone ext: <u>jameschu@mail.knu.edu.tw</u> extension: 6035	Credits: 3	
<b>Teaching Goals and Content</b>	Students will learn how to analyze the supply and demand of urban transportation systems and how to conduct transportation plans. Traditional and advanced approaches will be introduced in the course. We will have both lectures and computer lab sessions. During the computer lab sessions, TransCAD, one of the most popular transportation planning software packages, will be taught and used for homework. The knowledge of elementary algebra and calculus is preferred. The course is an introductory class so no background in the area of transportation is required. Students in school of transportation and tourism and other schools are all welcome.			
<b>Teaching Methods</b>	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> practical training <input checked="" type="checkbox"/> discussion <input checked="" type="checkbox"/> question -and-answer <input type="checkbox"/> other (details _____)			
<b>Grading and Evaluation Criteria</b>	midterm <u>30</u> %    final <u>30</u> %    class participation <u>10</u> % other <u>10,20</u> % (details <u>presentation, homework</u> )			
<b>Textbooks</b>	(author, title, edition, publisher, place of publication, year of publication, pages covered) 1. Ortuzar and Willumsen, Modeling Transport, Second Edition, John Wiley & Sons, 1990. 2. Meyer and Miller, Urban Transportation Planning, McGraw-Hill, 1984. 3. Papacostas and Prevedouros, Transportation Engineering and Planning, Second Edition, Prentice Hall, 1993.			
<b>Course Description (including outline and course schedule):</b>				

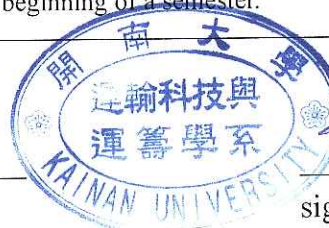


Week	Date	Content	Reading	Remark
1	2/29	Introduction to Urban Transportation	Papacostas and Prevedourous, Chap 6	
2	3/7	Transportation Planning and Decision-Making	Meyer and Miller, Chap 3	
3	3/14	Travel Demand Modeling	Oztuzar and Willumsen, Chap 1	
4	3/21	Data Collection	Oztuzar and Willumsen, Chap 3	Homework 1
5	3/28	Trip Generation	Oztuzar and Willumsen, Chap 4	
6	4/4	No class (Holiday)		
7	4/11	Trip Generation (Lab Session)	Oztuzar and Willumsen, Chap 4	Homework 2
8	4/18	Trip Distribution	Oztuzar and Willumsen, Chap 5	
9	4/25	Midterm Exam		
10	5/2	Trip Distribution (Lab Session)	Oztuzar and Willumsen, Chap 5	
11	5/9	Model Choice	Oztuzar and Willumsen, Chap 6, 7	
12	5/16	Model Choice		Homework 3
13	5/23	Model Choice (Lab Session)	Oztuzar and Willumsen, Chap 6, 7	
14	5/30	Network Assignment	Oztuzar and Willumsen, Chap 10	Homework 4
15	6/6	Network Assignment (Lab Session)	Oztuzar and Willumsen, Chap 10	
16	6/13	Other important Topics		
17	6/20	Presentation		
18	6/27	Final Exam		

**Instructions:**

Teachers should fill out this form before the semester begins. After it has been verified by the curriculum committee, the original should be given to the office of curriculum planning and a copy to the head of the department to which the course belongs. In addition, the teacher should explain this syllabus to students at the beginning of a semester.

signature of the convener of the curriculum committee



signature of the teacher

