

IHP  
Kainan University Fall Spring

Department of Transportation

Technology and Supply Chain Management

Course Schedule

CRN	Course title	Instructor	Subject	grade	Credits	Hours per week
IHP120120	<b>Chinese</b> : 交通運輸工程與管理概論	James Chu	<input type="checkbox"/> required <input checked="" type="checkbox"/> elective	2 Year 01 Class	3	3
	<b>English</b> : Introduction to Transportation Planning and Analysis	<b>Course prerequisites</b>	Knowledge of elementary algebra and calculus is preferred.			
<b>Teaching goal content</b>	Students will learn to read, observe, interpret, analyze and synthesize data and ideas to understand the complexities of transportation systems, their planning and management. We will study characteristics and problems of transportation systems, principles and relationships underlying travel behavior, the planning process, and methods for analyzing and predicting the system performance.					
<b>Teaching Methods</b>	<input checked="" type="checkbox"/> Lecture ◦ <input type="checkbox"/> practical training ◦ <input checked="" type="checkbox"/> discussion ◦ <input checked="" type="checkbox"/> question-and-answer ◦ <input type="checkbox"/> others ( ) ◦					
<b>Grading and evaluation criteria</b>	midterm 20% ◦ final 30% ◦ Class participation 10% ◦ others ( Homework ) grade 40% ◦					
<b>Textbooks</b>	(Author ◦ Title ◦ edition ◦ publisher ◦ publishing place ◦ publishing year ◦ from page to page in sequence) ◦					
	No textbook is assigned. Students are required to make their own copies of selected chapters from the following books. 1. Papacostas and Prevedouros, Transportation Engineering and Planning, Second Edition, Prentice Hall, 1993. 2. McShane, Roess, and Prassas, Traffic Engineering, Second Edition, Prentice Hall, 1998. 3. Ortuzar and Willumsen, Modeling Transport, Second Edition, John Wiley & Sons, 1994. 4. Taha, Operations Research, Sixth Edition, Prentice Hall, 1997.					
<b>Subject introduction (including outline and course schedule) :</b>						



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Week	Date	Content
1	9/11	Introduction
2	9/18	Transportation Systems
3	9/25	Holiday
4	10/2	Traffic Flow (1)
5	10/9	Traffic Flow (2)
6	10/16	Highway Capacity
7	10/23	Highway Control
8	10/30	Queuing System
9	11/6	Midterm Exam
10	11/13	Transportation Planning
11	11/20	Trip Generation
12	11/27	Trip Distribution
13	12/4	Mode Choice
14	12/11	Optimization
15	12/18	Network Assignment (1)
16	12/25	Network Assignment (2)
17	1/1	Holiday
18	1/8	Final Exam

**Instruction :**

1. The teacher fills in this form before the semester beginning. After verified by the curriculum committee, this form should be copied to give to the conveners who is belong to the same department, the department which the class is belong to, and the office of curriculum planning. Besides, the teacher explains this syllabus to students at the beginning of a semester.
2. This form is approved by the curriculum committee at the forth time on April 23<sup>rd</sup>, 2002

**Convener of the curriculum committee :**

**Teacher : James Chu**