

Tamkang University Academic Year 108, 1st Semester Course Syllabus

Course Title	SUSTAINABLE TRANSPORTATION	Instructor	HSIN-PING HSU
Course Class	TLTXB1P DEPARTMENT OF TRANSPORTATION MANAGEMENT, 1P	Details	<ul style="list-style-type: none"> ◆ General Course ◆ Selective ◆ One Semester
Departmental Aim of Education			
<p>I. To obtain professional transportation knowledge.</p> <p>II. To familiarize with execution of transportation practices.</p> <p>III. To master oral expression and teamwork.</p> <p>IV. To capture basic skills of system analysis.</p> <p>V. To emphasize professional transportation ethics.</p>			
Subject Departmental core competences			
<p>A. To obtain basic knowledge of transportation management.(ratio:25.00)</p> <p>B. To familiarize with practice-oriented professional skills.(ratio:25.00)</p> <p>D. To obtain basic ability of system analysis.(ratio:25.00)</p> <p>E. To build transportation ethics, care for humanity, and global visions.(ratio:25.00)</p>			
Subject Schoolwide essential virtues			
<p>1. A global perspective. (ratio:25.00)</p> <p>3. A vision for the future. (ratio:25.00)</p> <p>4. Moral integrity. (ratio:25.00)</p> <p>5. Independent thinking. (ratio:25.00)</p>			
Course Introduction	<p>The purpose of the course is to familiarize students with the basic concepts of sustainable development, the key issues in sustainable transportation (the balance among environmental protection, social equity, and economic prosperity), various strategies for promoting sustainable transportation worldwide, and current status and future challenges of sustainable transportation in Taiwan. Students will acquire relevant knowledge through lectures, examinations, discussions, and assignments.</p>		

The correspondences between the course's instructional objectives and the cognitive, affective, and psychomotor objectives.

Differentiate the various objective methods among the cognitive, affective and psychomotor domains of the course's instructional objectives.

I. Cognitive : Emphasis upon the study of various kinds of knowledge in the cognition of the course's veracity, conception, procedures, outcomes, etc.

II. Affective : Emphasis upon the study of various kinds of knowledge in the course's appeal, morals, attitude, conviction, values, etc.

III. Psychomotor: Emphasis upon the study of the course's physical activity and technical manipulation.

No.	Teaching Objectives	objective methods
1	To familiarize students with the basic concepts, key issues, various strategies, and future challenges of sustainable transportation.	Cognitive

The correspondences of teaching objectives : core competences, essential virtues, teaching methods, and assessment

No.	Core Competences	Essential Virtues	Teaching Methods	Assessment
1	ABDE	1345	Lecture, Discussion	Testing, Report(including oral and written), Activity Participation

Course Schedule

Week	Date	Course Contents	Note
1	108/09/09 ~ 108/09/15	Course Introduction	
2	108/09/16 ~ 108/09/22	Basic Concepts of Sustainable Development	
3	108/09/23 ~ 108/09/29	Key Issues in Sustainable Transportation	
4	108/09/30 ~ 108/10/06	Sustainable Transportation and Environmental Protection I	
5	108/10/07 ~ 108/10/13	Sustainable Transportation and Environmental Protection II	
6	108/10/14 ~ 108/10/20	Sustainable Transportation and Social Equity I	
7	108/10/21 ~ 108/10/27	Sustainable Transportation and Social Equity II	
8	108/10/28 ~ 108/11/03	Sustainable Transportation and Economic Prosperity I	
9	108/11/04 ~ 108/11/10	Sustainable Transportation and Economic Prosperity II	
10	108/11/11 ~ 108/11/17	Midterm Exam Week	
11	108/11/18 ~ 108/11/24	Solutions: Transportation Planning I	

12	108/11/25 ~ 108/12/01	Solutions: Transportation Planning II	
13	108/12/02 ~ 108/12/08	Solutions: Land Use Planning I	
14	108/12/09 ~ 108/12/15	Solutions: Land Use Planning II	
15	108/12/16 ~ 108/12/22	Solutions: New Energy Technology	
16	108/12/23 ~ 108/12/29	Solutions: Social Policy	Assignment Due: 12/25
17	108/12/30 ~ 109/01/05	New Year's Day (No Class)	
18	109/01/06 ~ 109/01/12	Final Exam Week (Date:109/1/3-109/1/9)	
Requirement	No background in transportation is needed. Students interested in sustainability and transportation are welcomed! (無先修課程 · 歡迎對永續發展與交通運輸有興趣的同學選修!)		
Teaching Facility	Computer, Projector		
Textbooks and Teaching Materials	Lecture slides, course handouts, and assigned readings.		
References	1) Black, W. R. (2010). Sustainable Transportation: Problems and Solutions. The Guilford Press. 2) Tumlin, J. (2012). Sustainable Transportation Planning: Tools for Creating Vibrant, Healthy, and Resilient Communities. Wiley. 3) Schiller, P. L. and Kenworthy, J. R. (2017). An Introduction to Sustainable Transportation: Policy, Planning and Implementation. Routledge.		
Number of Assignment(s)	1 (Filled in by assignment instructor only)		
Grading Policy	◆ Attendance : 10.0 % ◆ Mark of Usual : 20.0 % ◆ Midterm Exam : 35.0 % ◆ Final Exam : 35.0 % ◆ Other < > : %		
Note	This syllabus may be uploaded at the website of Course Syllabus Management System at http://info.ais.tku.edu.tw/csp or through the link of Course Syllabus Upload posted on the home page of TKU Office of Academic Affairs at http://www.acad.tku.edu.tw/CS/main.php . ※ Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.		