Global Learning Initiatives Program Course Syllabus

Please complete the following form in English. The information will be updated to the Global Learning Initiatives Program website for students' reference. If you will be offering more than one course, please fill out one form per course offered. Examples in grey.

Course Information

Course Name *provide the **English** course name of the course.	Transportation System Analysis
Lecturer(s) *provide the lecturers' **English** name. If there are more than one lecturer, please indicate all lecturers in the column.	1: Chin Sum SHUI
Course Description *briefly describe the contents covered in the courses.	This course provides an introduction on the concepts and basic mathematics related to the fundamentals of transportation system analysis. It covers the theories and methods for measuring different perspectives in a transportation system.
Course Objectives *list out knowledge or skills students should acquire upon completion of course.	After completing the course, students will be able to: (1) gain a basic understanding to different transportation systems; (2) critically evaluate the performance of the transportation systems by selecting the most appropriate objectives, modelling tools, and parameters
Suggested Proficiencies (if any) *list preferred knowledge or skills students should have before taking the course.	Basic Algebra
Reading List (if any) *list out the textbooks, references, or other reading materials.	Rodrigue, J.-P. (2020) The Geography of Transport Systems (5th Edition), New York: Routledge. Ortuzar, J. & L. G. Willumsen, (2011) Modelling Transport (4th Edition), John Wiley & Sons.
Grading Criteria *how would the students be assessed during the course.	Coursework 25% In-class debate 40% Final exam 35%

Course Schedule

Please complete the following table with the dates and expected course topics. If there are more than one lecturers instructing the course, please also indicate the lecturer for each class.

Class	Date (YYYY/MM/DD)	Course Topic	Lecturer
1	2022/09/14	Introduction to Transportation Systems	
2	2022/09/21	Transportation and Spatial structures	
3	2022/09/28	Transport, society, and economy (I)	
4	2022/10/05	Transport, society, and economy (II)	
5	2022/10/12	Transport, energy, and environment (I)	
6	2022/10/19	Transport, energy, and environment (II)	
7	2022/10/26	Transport modes (I)	
8	2022/11/02	Transport modes (II) and terminals	
9	2022/11/09	Urban transportation system (I)	
10	2022/11/16	Urban transportation system (II)	
11	2022/11/23	Methods in Transportation Analysis (I)	
12	2022/11/30	Methods in Transportation Analysis (II)	
13	2022/12/07	Methods in Transportation Analysis (III)	
14	2022/12/14	Transport planning, policy, and analysis (I)	
15	2022/12/21	Transport planning, policy, and analysis (II)	
16	2022/12/28	Final examination	