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SYLLABUS

Course Title: Analysis for Transportation Managers
Academic Department/Course Number: PUBP 717
Semester/Year: Fall 2020
Building/Room: VMH 320
Days/Time: R 7:20 p.m.-10:00 p.m.
Instructor: Edmund J. Zolnik
Office: VMH 653
Office Telephone: (703)993-1144
Office Hours: RW 10:00 p.m.-11:00 p.m.
Electronic Mail: Please use Blackboard to send messages.

Course Objectives: Introduction to methods used in transportation analysis. Covers the mathematics of each method and emphasizes the application of each method to transportation planning and policy. It is a required core course in the Transportation, Planning, Operations and Logistics (TPOL) program.

Learning Outcomes: After being introduced to various concepts and methods, students will learn how to analyze transportation data. In the process, students will become proficient in the use of methods which will enhance their professional development.

Course Materials

Textbook: Levinson, D., Liu, H., Garrison, W., Hickman, M., Danczyk, A. and Corbett, M. 2011. *Fundamentals of Transportation*.

Course Requirements: Each examination will be problem-based and cover topics presented in lecture. The four exercises reinforce topics covered in lecture and are designed to help students prepare for each examination. They are due one week after they are assigned.

Course Grade:

<u>Evaluation</u>	<u>Weight</u>
Examination	50%
Exercise	50%

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Grade Distribution:

For purposes of this course, the grades of A+, A or A- are reserved for sustained excellence and outstanding performance on all aspects of the course. The grades of B+ and B are used to denote mastery of the material and very good performance on all aspects of the course. The grade of B- denotes marginal quality work that is not quite up to graduate level standards. The grade of C denotes work that may be adequate for undergraduate-level performance, but is not acceptable at the graduate level. The grade of F denotes the failure to perform adequately on course assignments.

Course Schedule

<u>Date</u>	<u>Day</u>	<u>Topic</u>
8/27	R	Transportation Economics/Introduction
9/3	R	Transportation Economics/Pricing
9/10	R	Transportation Economics/Decision making
9/17	R	Examination 1
9/24	R	Fundamentals of Transportation/Introduction
10/1	R	Fundamentals of Transportation/Geography and Networks
10/8	R	Fundamentals of Transportation/Trip Generation
10/15	R	Fundamentals of Transportation/Destination Choice
10/22	R	Fundamentals of Transportation/Destination Choice/Background
10/29	R	Fundamentals of Transportation/Mode Choice
11/5	R	Fundamentals of Transportation/Route Choice
11/12	R	Fundamentals of Transportation/Evaluation
11/19	R	Fundamentals of Transportation/Planning
12/3	R	Fundamentals of Transportation/Conclusions
12/10	R	Examination 2

Mason Diversity Statement

George Mason University promotes a living and learning environment for outstanding growth and productivity among its students, faculty and staff. Through its curriculum, programs, policies, procedures, services and resources, Mason strives to maintain a quality environment for work, study and personal growth.

An emphasis upon diversity and inclusion throughout the campus community is essential to achieve these goals. Diversity is broadly defined to include such characteristics as, but not limited to, race, ethnicity, gender, religion, age, disability and sexual orientation. Diversity also entails different viewpoints, philosophies and perspectives. Attention to these aspects of diversity will help promote a culture of inclusion and belonging, and an environment where diverse opinions, backgrounds and practices have the opportunity to be voiced, heard and respected.

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The reflection of Mason's commitment to diversity and inclusion goes beyond policies and procedures to focus on behavior at the individual, group and organizational level. The implementation of this commitment to diversity and inclusion is found in all settings, including individual work units and groups, student organizations and groups and classroom settings; it is also found with the delivery of services and activities, including, but not limited to, curriculum, teaching, events, advising, research, service and community outreach.

Acknowledging that the attainment of diversity and inclusion are dynamic and continuous processes, and that the larger societal setting has an evolving sociocultural understanding of diversity and inclusion, Mason seeks to continuously improve its environment. To this end, the University promotes continuous monitoring and self-assessment regarding diversity. The aim is to incorporate diversity and inclusion within the philosophies and actions of the individual, group and organization, and to make improvements as needed.

Accommodations

If you are a student with a disability and you need academic accommodations, please contact Disability Services (DS) at (703)993-2474 or at ods@gmu.edu. All academic accommodations must be arranged through DS.

Schar School Policy on Plagiarism

The profession of scholarship and the intellectual life of a university as well as the field of public policy inquiry depend fundamentally on a foundation of trust. Thus any act of plagiarism strikes at the heart of the meaning of the university and the purpose of the Schar School of Policy and Government (Schar School). It constitutes a serious breach of professional ethics and it is unacceptable.

Plagiarism is the use of another's words or ideas presented as one's own. It includes, among other things, the use of specific words, ideas or frameworks that are the product of another's work. Honesty and thoroughness in citing sources is essential to professional accountability and personal responsibility. Appropriate citation is necessary so that arguments, evidence and claims can be critically examined.

Plagiarism is wrong because of the injustice it does to the person whose ideas are stolen. But it is also wrong because it constitutes lying to one's professional colleagues. From a prudential perspective, it is shortsighted and self-defeating, and it can ruin a professional career.

The faculty of the Schar School takes plagiarism seriously and has adopted a zero-tolerance policy. Any plagiarized assignment will receive an automatic grade of "F". This may lead to failure for the course, resulting in dismissal from the University. This dismissal will be noted on the student's transcript. For foreign students who are on a university-sponsored visa (e.g. F-1, J-1 or J-2), dismissal also results in the revocation of their visa.

To help enforce the Schar School policy on plagiarism, all written work submitted in partial fulfillment of course or degree requirements must be available in electronic form so that it can be

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compared with electronic databases, as well as submitted to commercial services to which the Schar School subscribes. Faculty may at any time submit student's work without prior permission from the student. Individual instructors may require that written work be submitted in electronic as well as printed form. The Schar School policy on plagiarism is supplementary to the George Mason University Honor Code; it is not intended to replace it or substitute for it.

Updated:

July 28, 2020