

SYLLABUS

Code/Discipline	362239/Economia dos Transportes I (Transportation Economics I)		
Workload	30 hours	Credits	2 credits
Level	Master and PhD		
Type	Optional		
Concentration area	Logistics, Operations and Transportation Planning		
Professor	Neantro Saavedra Rivano (neantro@unb.br)		
Semester	2022/1 (June 6 th , 2022, to September 23 rd , 2022)		
Class meetings	Wednesday: 10:00 – 11:50		
Location	Anexo SG-12 (AT 08/7 - Térreo)		
Course objectives	The objective of this course is to present the basic concepts of transportation economics: demand, costs, price determination, and infrastructure development. The course will also review needed concepts of economics.		
Teaching method	Theoretical classes for presentation of programmatic content, and resolution of exercises in the classroom		
Program	<ol style="list-style-type: none"> 1. Introduction: the economic dimension of transportation science; transportation and economic development; main actors in economic transportation analysis 2. The market for transport services (Cowie ch. 3, Mankiw ch. 4) 3. Transport demand elasticity (Cowie 4, Mankiw 5) 4. Transport costs (Cowie 5, Mankiw 13) 5. Perfect competition in transport markets (Cowie 6, Mankiw 14) 6. Imperfect competition in transport markets (Cowie 7, Mankiw 15) 7. Exam 1 8. Pricing (Cowie 8) 9. Transport and the environment (Cowie 10) 10. Transport regulation and ownership (Cowie 10) 11. Forecasting demand for transport (Cowie 13) 12. Transport appraisal and evaluation (Cowie 14) 13. Exam 2 14. Project paper presentation I 		
Evaluation criterion	1 – Evaluation components The student will be evaluated by: <ul style="list-style-type: none"> - Exam 1 (items 1 to 6 of the program) – July 20th, 2022 - Exam 2 (items 8 to 12 of the program) – September 14th, 2022 - Final Project Paper –September 21st, 2022 		

The exams will contain a combination of multiple choice and open questions and will take place during the same time slots of the lectures (10:00 AM – 11:50 AM).

The Project Paper must deal with a subject of relevance to the discipline and clearly specify its theme, objective, methodology, results, and conclusion. The paper must have 5-10 pages and follow the guidelines of ANPET (http://www.anpet.org.br/ssat/interface/content/autor/arquivos/formato_trabalhos.pdf). Students may organize themselves in groups for the sake of the paper (AT MOST 2 PER GROUP). They will be presented during the last session of this course (see Program). The evaluation of the Project Paper will be based on the quality of the paper itself and on the presentation made in class, including the ability to properly answer questions from colleagues and professors.

2 – Final Score

Arithmetic mean of the 2 exams and the Project Paper

$$FS = (\text{Exam1} + \text{Exam2} + \text{paper})/3$$

3 – Conditions for approval

To be approved, the student must the following conditions:

- get $FS \geq 5,0$
- get frequency $\geq 75\%$

4 – Final grade

It will be assigned per the following table:

Grade	Final Score (FS)
SS	$FS \geq 9,0$
MS	$7,0 \leq FS \leq 8,9$
MM	$5,0 \leq FS \leq 6,9$
MI	$3,0 \leq FS \leq 4,9$
II	$0,1 \leq FS \leq 2,9$
SR	$FS = 0,0$

Bibliography

BIBLIOGRAFIA BÁSICA

Main reference is the textbook (below) by Cowie, to be supplemented in the first group of lectures by the textbook by Mankiw.

1. Cowie, Jonathan (2009). **The Economics of Transport – A Theoretical and Applied Perspective**. Routledge
2. Cole, Stuart (2005). **Applied Transport Economics – Policy, Management & Decision Making**. Kogan Page Publishers.
3. Martland, Karl (2012). **Toward More Sustainable Infrastructure –Project Evaluation for Planners and Engineers**. John Wiley & Sons.

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4. Mankiw, Gregory (2017). **Principles of Microeconomics**. 8th Edition. Cengage Learning, Boston.
 5. Varian, Hal R. (2010). **Intermediate Microeconomics: a Modern Approach**. 8th Edition. W.W. Norton & Company.
 6. Levinson, David and Gillen, David and Iacono Michael, (2016). **Transportation Economics**/Wikibooks.
(https://upload.wikimedia.org/wikipedia/commons/4/42/Transportation_Economics.pdf)
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[Neantro Saavedra Rivano]
Brasília, June 7th, 2022