



OPM 7300 (T01) (3.0 CH)
TRANSPORT & LOGISTICS MANAGEMENT
Winter 2012

INSTRUCTOR

Name:	Dr. Barry E. Prentice	Office Location:	626 Drake
Phone:	474-9766	Office Hours:	By appointment
Fax:	474-7545	Class Time:	Wednesdays 6:15-9:30
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COURSE DESCRIPTION

This course presents the principle concepts of transport management and logistics through the lens of economic theory. The topics covered include trade, modal supply, derived demand, joint product pricing, congestion, peak loading, public cost/benefit analysis, location analysis, intermodal competition, externalities, public policy trade-offs, subsidies, regulation and enforcement. The applications of economic theory are complemented with readings on current issues in Canadian transportation and logistics management.

COURSE OBJECTIVES

- to introduce various economic concepts and applications of economics and logistics theory applied to the transportation sector;
- to explain the role of direct, indirect and exogenous costs in determining transportation supply under competitive and regulated freight rates;
- to illustrate logistical issues that confront the transport manager, and the role for government regulation.

COURSE ACTIVITIES

This course is taught through formal lectures and a group discussion of research papers. Examples from current business and industry situations are used to illustrate the practical applications of concepts discussed in class.

COURSE MATERIALS

Prentice, Barry E. and Darren J. Prokop. *Concepts of Transportation Economics: A Provisional Text*. Winnipeg, MB, Transport Institute, Asper School of Business, 2009.

Canadian Transportation Research Forum, *Annual Proceedings*, selected readings 2006 - 2011.

Levinson, M. *The Box: How the Shipping Container Made the World Smaller and the World Economy Bigger*. Princeton, NJ: Princeton University Press, 2006.

COURSE ASSESSMENT

Cumulative Marks	Grade	GPA	Performance
90-100	A+	4.5	Excellent
80-89	A	4.0	Very Good
75-79	B+	3.5	Good
70-74	B	3.0	Satisfactory
65-69	C+	2.5	Marginal
60-64	C	2.0	Unsatisfactory
50-59	D	1.0	Unsatisfactory
Below 50	F	0.0	Unsatisfactory

<u>Item</u>	<u>Percent of final grade</u>
Participation	20%
Mid-term exam	20%
Book review	20%
Final exam	40%

EXAMINATIONS

The mid-term examination, worth 20% of your final grade, will be held during mid-February on a mutually acceptable weekend day or evening outside the regular class. A two-hour, comprehensive final exam, worth 40% of your final grade, will be held during the final examination period at a time scheduled by the MBA office. Students who miss the mid-term exam due to legitimate, documented illness or compassionate reasons will not be given a make-up exam. Rather, the weight for the mid-term exam will be allocated to the final exam.

BOOK REVIEW

The book review is assigned as part of the course.

1. They length guidelines are 1000 words minimum and 1200 words maximum.
2. All text must be space and a half.
3. All margins must be 1 inch (2.5 cm).
4. All text must be in 12-point pitch.

PARTICIPATION GRADE

Each week three papers as assigned will be discussed in class. A one to two page point-form critique must be prepared for each paper, and brought to class. The participation grade will be recorded when the critiques are counted at the end of the term. Each week three students will be nominated to lead the discussion (one article each) the following week.

The content of the critiques can be divided almost equally into four parts: a brief synopsis of the paper, comments on the strengths of the paper, comments on the weaknesses of the paper, and a section in which you outline the key findings or issues that you have learned from the paper.

ACADEMIC REGULATIONS

Students are encouraged to contact Disability Services at 474-6213 or the instructor should special arrangements need to be made to meet course requirements.

EXAM RESCHEDULING POLICY

Students are expected to write ALL exams with their classmates at the scheduled exam time. Requests for exam rescheduling must be referred to the Graduate Program Office. Please refer to Missing a Test/Exam on page 14 of the MBA Student Handbook for further information:

http://umanitoba.ca/faculties/management/programs/graduate/mba/media/Student_Handbook_Master_Copy_Dec_15_2010_.pdf

COURSE SCHEDULE

Week 1: January 4

Concepts of Transportation Chapter 1: Transportation, Logistics and Technology
Chapter 2: The Demand for Transportation

CTRF Readings:

Logistics and Order Fulfillment Strategies for Online Grocery Retailing. (2011): Andrew Scarber and Louis A. Le Blanc, p. 17

Struggling to make Strategic Changes to Industrial Product Manufacturer's Transportation Systems. (2009): Blake Kotylak P. 123

Environmental characteristics associated with adult walking behaviours. (2010): Kristian Larsen and Jason Gilliland p. 17

Week 2: January 11

Concepts of Transportation Chapter 3: Trade and Transportation Costs

CTRF Readings:

Use of Containers in Canada. (2007): James Frost p. 20

Prince Rupert: Gateway to the Twin Cities and the Potential Value Added Intermodal Freight Service. (2007): Richard D. Stewart, Adolph Ojard and Xiubin Wang, p. 28

Logistical Rivalries and Impacts of Canada's Logistic Systems on U.S. Container Supply Chain. (2009): Lei Fan, William W. Wilson and Denver Tolliver, p. 280

Week 3: January 18

Concepts of Transportation Chapter 4: Laws of Variable Proportions and Scale

CTRF Readings:

Measuring Freight Production. (2011) Bruno Jacques and Eugene Karanga p. 223

A Profile of the Port Drayage Sector in B.C.'s Lower Mainland, (2006): Philip Davies, p. 747

Forestry Transport: Concept for Autonomous Unmanned Airship Logging. (2010) Juergen K. Bock, Uwe Apel and Barry E. Prentice, p. 478

Week 4: January 25

Concepts of Transportation Chapter 5: Cost Economies and Traceability

CTRF Readings:

The Impact of the Increased Price of Crude Oil on the Transportation Sector. (2010) James Young, p. 534

Time is Money: The Importance of Hub Timetable Coordination for Airline Hub-and-Spoke Systems, (2007): Antonio Danesi, p. 58

Potential Options for Improving the Distribution of Asian Sourced Retail Freight Arriving Through the Port of Halifax. (2008): James Christie and Mark Gunter, P. 642

Week 5: February 1

Concepts of Transportation Chapter 6: Modal Supply Characteristics

CTRF Readings:

The Status of Owner-Operators under the Canada Labour Code: Is Change Needed? (2008): Garland Chow and Rob Weston, p. 117

Opportunities and Challenges facing Canadian Ports. (2008): Michael Ircha, P. 612

Overcoming Rail Infrastructure Capacity Constraints: Implication for Competition, (2006): Malcolm Cairns p. 327

Week 6: February 8

Concepts of Transportation Chapter 7: Markets and Competition in Transportation
Chapter 8: Externalities, Public Supply and Marginal Cost Pricing

CTRF Readings:

Trying to Put the "Full" in the Full Costs of Transportation, (2006): David Gillen, John Lawson, W.G. Waters and Anming Zhang, p. 433

The Interswitching Provision and its History - A Form of Railway Competitive Access-1, (2006): Joseph Monteiro, p. 808

Addressing the Potential for Increased Intermodal Freight Movements through Canada-US Border Crossings. (2008): W.P. Anderson, P. 597

Week 7: February 15

Concepts of Transportation Chapter 9: Spatial and Temporal Pricing in Transportation

CTRF Readings:

Urban Density and Transit Variability: A Case Study, (2006): Sundar Damodaran, p. 158

The four outcomes of transit and land-use. (2010) Sybil Derrible and Bilal Farooq, P. 844

Congestion pricing, transit subsidies and dedicated bus lanes: Efficient and practical solutions to congestion. (2010) Leonardo Basso, Cristian Guevara, Antonio Gschwender and Marcelo Fuster, P. 829

Mid-term Break February 22

No Classes

No Classes

Week 8: February 29

Concepts of Transportation Chapter 10: Product Pricing in Transportation
Chapter 11: Transportation, Investment and Generalized Cost

Book Discussion: *The Box: How the Shipping Container Made the World Smaller and the World Economy Bigger*. (2006): M. Levinson.

Week 9: March 7

Concepts of Transportation Chapter 12: Location and Land Settlement

CTRF Readings:

North American Trade Corridors: An Initial Exploration, (2006): Stephen Blank, p. 480

Distance and Competitiveness - The Role of Gateways, Corridors and Competition. (2007): Kenneth Button, p. 724

Refrigerated Transport to Mexico: Cold Chain Challenges and Opportunities. (2008): Barry E. Prentice and Ron McLachlin, P. 582.

Week 10: March 14

Concepts of Transportation Chapter 13: Transportation and Government Policy
Chapter 14: Regulatory Enforcement and Compliance

CTRF Readings:

Making transit work: The main ingredients. (2010) Richard Soberman, P. 844

Cabotage – Are we ready? How is it dealt with in various Sectors of Transportation in Canada?
(2009): Joseph Monteiro and Benjamin Atkinson, p. 596

Cost Recovery from Road Tolls with Long-Run Uncertainty. (2011): Andre de Palma and Robin Lindsey, P. 513

Week 11: March TBA

Final Exam: 2 hours



ACADEMIC INTEGRITY

I.H. Asper School of Business, The University of Manitoba

It is critical to the reputation of the I. H. Asper School of Business and of our degrees that everyone associated with our faculty behaves with the highest academic integrity. As the faculty that helps create business and government leaders, we have a special obligation to ensure that our ethical standards are beyond reproach. Any dishonesty in our academic transactions violates this trust. The University of Manitoba Graduate Calendar addresses the issue of academic dishonesty under the heading "Plagiarism and Cheating." Specifically, acts of academic dishonesty include, but are not limited to:

- using the exact words of a published or unpublished author without quotation marks and without referencing the source of these words
- duplicating a table, graph or diagram, in whole or in part, without referencing the source
- paraphrasing the conceptual framework, research design, interpretation, or any other ideas of another person, whether written or verbal (e.g., personal communications, ideas from a verbal presentation) without referencing the source
- copying the answers of another student in any test, examination, or take-home assignment
- providing answers to another student in any test, examination, or take-home assignment
- taking any unauthorized materials into an examination or term test (crib notes)
- impersonating another student or allowing another person to impersonate oneself for the purpose of submitting academic work or writing any test or examination
- stealing or mutilating library materials
- accessing tests prior to the time and date of the sitting
- changing name or answer(s) on a test after that test has been graded and returned
- submitting the same paper or portions thereof for more than one assignment, without discussions with the instructors involved.

Many courses in the I. H. Asper School of Business require group projects. Students should be aware that group projects are subject to the same rules regarding academic dishonesty. Because of the unique nature of group projects, all group members should exercise special care to insure that the group project does not violate the policy on Academic Integrity. Should a violation occur, group members are jointly accountable unless the violation can be attributed to a specific individual(s).

Some courses, while not requiring group projects, encourage students to work together in groups (or at least do not prohibit it) before submitting individual assignments. Students are encouraged to discuss this issue as it relates to academic integrity with their instructor to avoid violating this policy.

In the I. H. Asper School of Business, all suspected cases of academic dishonesty involving a graduate student (i.e. MBA, MSc or PhD student) will be reported directly by the instructor to the Dean of the Faculty of Graduate Studies.



MEDICAL ABSENTEEISM FORM

I.H. Asper School of Business, The University of Manitoba

STUDENT IDENTIFICATION: (PLEASE PRINT CLEARLY)

_____	_____	_____	_____
Last Name	First Name	Middle Initial	U of M Student Identification Number
_____	_____		
Course #	Instructor Name		
_____	_____		
Student's Signature	Date		

TO BE COMPLETED BY THE ATTENDING PHYSICIAN: (after the above section is completed) (PLEASE PRINT CLEARLY)

_____	_____	_____
Physician's Last Name	Physician's First Name	Middle Initial
_____	_____	_____
Street Address	City, Province	Postal Code
_____	_____	_____
Telephone Number	Fax Number	
_____	_____	
<p>To the attention of the physician: Your evaluation of the student's condition is being used for the purpose of determining whether or not the student has a <u>valid reason</u> to miss an important <u>exam</u> or <u>assignment</u>. Your professional evaluation is necessary to ensure that only valid cases are excused.</p>		
<p>I certify that the nature of the student's condition is severe enough to prevent the student from taking an exam or completing an assignment. If requested, my associates or I will verify for the above named instructor/administrator that this information is accurate.</p>		
The student's condition will likely span the following dates:		
_____	until	_____
(Indicate start date)		(Indicate end date)
_____		_____
Physician's Signature	Date	

NOTES TO PHYSICIAN:

- Please make a note in the student/patient's file indicating that the student has given the above named instructor/administrator permission to verify with you, your staff, or your colleagues, that the information contained on this form is correct. Thank you for your professional evaluation of this student's condition.
- **PLEASE ATTACH THIS FORM TO YOUR REGULAR OFFICE STATIONERY THAT INDICATES THE STUDENT VISITED YOUR OFFICE.**

NOTES TO STUDENT:

- The use of this form is at the option of the student. However, in order to obtain an excused absence for an assignment or exam the student must obtain a doctor's certification that the student's condition is severe enough to prevent the student from taking the exam or completing the assignment.
- It is NOT SUFFICIENT to provide a note that only indicates the student visited the doctor's office.

Barry E. Prentice Ph.D., MCIT

Dr. Prentice is a Professor of Supply Chain Management, at the I.H. Asper School of Business, University of Manitoba and the former Director (1996-2005) of the Transport Institute. His major research and teaching interests include logistics, transportation economics, urban transport and trade policy. Dr. Prentice holds a degree in economics from University of Western Ontario (1973) and graduate degrees in agricultural economics from University of Guelph (1979) and University of Manitoba (1986).

Dr. Prentice has authored or co-authored more than 250 research reports, journal articles and contributions to books. His scholarly work has been recognized for excellence in national paper competitions and awards. In 1999, National Transportation Week named him Manitoba Transportation Person of the Year. Through the Transport Institute, Dr. Prentice has organized national and international conferences on sustainable transportation (*Railways and the Environment*), supply chain logistics (*Planes, Trains & Ships*), agribusiness logistics (*Fields on Wheels*), the potential use of airships for northern transportation (*Airships to the Arctic*) and food trade between Canada and Mexico (*La Cadena de Frio*). In 1999 and 2003, he received University of Manitoba Outreach Awards. In 2009, Dr. Prentice was made an Honourary Life Member of the Canadian Transportation Research Forum.

Dr. Prentice was instrumental in founding a major in transportation and logistics within the B.Comm. (Hons.) program at the I. H. Asper School of Business (fall 2003). Since that time a new Department of Supply Chain Management has been formed, and in 2006 a M.Sc. program in supply chain management was initiated.

Dr. Prentice has served on the Boards of Directors of several transportation organizations: National Transportation Week (President, 2001 and 2003), *Honourary President* of the Canadian Institute for Traffic and Transportation (2001-3) and the Canadian Transportation Research Forum (Past President, 1997). Dr. Prentice is the President of ISO Polar Airships that he co-founded in 2005 as a not-for-profit research institute to promote the use of airships as sustainable transport for the northern latitudes. He is Associate Editor of the *Journal of Transportation Research Forum*. In addition, Dr. Prentice has served on Winnipeg Airports Authority, Inc. (1998-2003), Winnipeg TransPlan 2010, the Mid-Continent International Trade Corridor Task Force, the Rapid Transit Task Force, expert committees, and is frequently asked to speak on the topics of trade and transportation.