University of Manitoba

Department of Supply Chain Management, Asper School of Business

SCM.2210 Principles of Transportation

Course Outline - Winter 2018

Instructor:

Dr. Barry E. Prentice, 626 Drake (Transport Institute), telephone 474-9766 (leave a message if no one answers), e-mail: barry_prentice@umanitoba.ca

Course Time and Location:

Lecture: Drake Room 108, Tuesday and Thursday 1:00 - 2:15 p.m.

Office Hours:

By appointment

Course Objectives:

- to develop an understanding of the scope and breadth of transportation in the Canadian economy and its importance to society;
- to introduce various economic concepts and applications of economic theory to the transportation sector;
- to explain the role and importance of direct, indirect and exogenous costs in determining transportation supply under competitive and regulated freight rates;
- to illustrate some of the policy issues that confront the transportation sector, and the role of 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. Guest speakers from the transportation industry may be invited to address the class. You are expected to read all assigned readings prior to class and to stay up to date in the textbook.
Required Texts:


Recommended Text:


Course Assessment

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<tr>
<th>Cumulative Marks</th>
<th>Grade</th>
<th>GPA</th>
<th>Performance</th>
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<tbody>
<tr>
<td>85-100</td>
<td>A+</td>
<td>4.5</td>
<td>Outstanding</td>
</tr>
<tr>
<td>80-84</td>
<td>A</td>
<td>4.0</td>
<td>Excellent</td>
</tr>
<tr>
<td>75-79</td>
<td>B+</td>
<td>3.5</td>
<td>Very Good</td>
</tr>
<tr>
<td>70-74</td>
<td>B</td>
<td>3.0</td>
<td>Good</td>
</tr>
<tr>
<td>65-69</td>
<td>C+</td>
<td>2.5</td>
<td>Satisfactory</td>
</tr>
<tr>
<td>60-64</td>
<td>C</td>
<td>2.0</td>
<td>Marginal</td>
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<tr>
<td>50-59</td>
<td>D</td>
<td>1.0</td>
<td>Unsatisfactory</td>
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<tr>
<td>Below 50</td>
<td>F</td>
<td>0.0</td>
<td>Unacceptable</td>
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Grading System

Mid-term exam 20%
Critique participation 10%
Three written critiques 30%
Final exam 40%

Examinations

The mid-term examination, worth 20% of your final grade, will be held during the evening of *Tuesday, February 13, 6 p.m. - 8 p.m. Room 122 Drake*. 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 registrar. 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. All examinations are closed book.
Critiques

Three written critiques are assigned throughout the course, each worth 10 percent. Critiques must be submitted at the class. Written critiques will not be accepted subsequently. Following the return of the graded critique, a corrected version must be submitted via D2L. Failure to submit the corrected version will incur a 25 percent discount on the assigned grade.

1. Critiques must be type written.
2. Length is minimum 550 words, maximum 650 words plus a cover page.
3. All text must be double-spaced.
4. All margins must be 1 inch (2.5 cm).
5. All text must be in 12-point pitch.
6. Cover page requires name, student number and course section.
7. Word count must be provided.

The content of the critiques can be divided roughly into four parts: a brief synopsis of the paper, comments on the strengths of the paper, comments on the weaknesses that could be improved, and a section in which you outline key findings or issues that you have learned from the paper. A further detailed outline for each of the three critiques is available on D2L.

Participation Grade

A Point-form Critique worksheet must be handed in at the end of each class where one of the CTRF papers are discussed, except for those cases in which a written critique is handed in. At the end of the course, each student’s participation is assessed based on the number and content of worksheets.

Academic Integrity

University policy strictly prohibits “plagiarism and cheating” and “examination impersonations” as outlined in the University of Manitoba General Calendar (page 28).

Transferable Credit

This course is recognized as the Transportation Economics credit in the Transport Institute Certificate in Logistics Program, and as a credit towards a CITT designation [http://www.citt.ca](http://www.citt.ca)
Course Schedule – Winter 2016

Week 1: January 4
Course Introduction, distribution of CTRF Proceedings, course schedule, and critique outline

Week 2: January 9/11
Chapter 1: Transportation, Logistics and Technology
Chapter 2: The Demand for Transportation

Week 3: January 16/18
Chapter 3: Trade and Transportation Costs
Chapter 4: Laws of Variable Proportions and Scale
CTRF Reading & Point-form Critique:

A Future with Autonomous Vehicles: Issues, the Potential for Research Topics, and A Personal Perspective. Malcolm Cairns, p. 73

Week 4: January 23/25
Chapter 5: Cost Economies and Traceability
CTRF Reading & Point-form Critique:

Design and Analysis of City Logistics Systems in Toronto for Express Courier Companies. Puyuan Deng, Mehdi Nourinejad, Mahyar Jahanpiriesmaili, Matthew Roorda p. 109

Week 5: January 30 - February 1
Chapter 6: Modal Supply Characteristics
CTRF Readings: *** written hand-in critique ***

Generalized Cost Functions of Crude Oil Pipeline Shipments in Canada. Adam Morrison; Chris Bachmann; Frank Saccomanno, p. 89

Or

Week 6: February 6/8

Chapter 7: Markets and Competition in Transportation

CTRF Reading & Point-form Critique:

*The Impacts of Connected and Automated Vehicle Technologies on Goods Movement and Distribution in North America.* Alec Knowles, Adrian Lightstone, p. 117

Week 7: February 13-15

Tuesday February 13, MID-TERM EXAM: exam in the evening 6 p.m. - 8 p.m. Room 122 Drake

Chapter 8: Externalities, Public Supply and Marginal Cost Pricing

Week 8: February 19-23

Spring Break, no classes

Week 9: February 27 March 1

Chapter 9: Spatial and Temporal Pricing in Transportation

CTRF Readings: *** written hand-in critique ***

*The Tale of Taxi Reforms in Two Cities: The Failure of Closed Entry – Continued*  
Joseph Monteiro, Barry Prentice, p. 65

Or


Week 10: March 6/8

Chapter 10: Product Pricing in Transportation

CTRF Reading & Point-form Critique:

*Policies to Control Spillover Parking.* Murat Olus Inan, Eren Inci, Robin Lindsey, p.226
**Week 11: March 13/15**
Chapter 11: Transportation, Investment and Generalized Cost

CTRF Reading & Point-form Critique:

*Sustainability Analysis of Transportation Infrastructure in Waterloo, Ontario.* Jacob Terry, Chris Bachmann and Jeffrey M. Casello, page 141.

**Week 12: March 20/22**

Chapter 12: Location and Land Settlement

CTRF Readings: *** written hand-in critique ***

*Pursuing Tomorrow’s Transportation System Today: How Government and Key Players Can Drive Positive Change.* Patty Toner, Hunter Doubt, Nick Mulder, Philip Cartwright, p. 188.

Or


**Week 13: March 27/29**

Chapter 13: Transportation and Government Policy

CTRF Reading & Point-form Critique:

*Region of Peel – Commodity Flow and Network Analysis.* Adrian Lightstone, Mausam Duggal, p. 49

**Week 14: April 3/5**

Chapter 14: Regulatory Enforcement and Compliance

CTRF Reading & Point-form Critique:

*Photo Radar in Ontario – Will Being a Late Adopter Solve the Problems?* Gordon Baldwin, page 238.
<table>
<thead>
<tr>
<th></th>
<th>Goals and Objective in SCM 2210/ABIZ 2210</th>
<th>Goals and Objectives Addressed in this Course</th>
<th>Course Item(s) Relevant to these Goals and Objectives</th>
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<tbody>
<tr>
<td>1</td>
<td>Quantitative Reasoning</td>
<td></td>
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<tr>
<td></td>
<td>A. Determine which quantitative analysis technique is appropriate for solving a specific problem.</td>
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<td>B. Use the appropriate quantitative method in a technically correct way to solve a business problem.</td>
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<td></td>
<td>C. Analyze quantitative output and arrive at a conclusion.</td>
<td>✓</td>
<td>Quantitative analysis in CTRF papers</td>
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<tr>
<td>2</td>
<td>Written Communication</td>
<td></td>
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<tr>
<td></td>
<td>A. Use correct English grammar and mechanics in their written work.</td>
<td>✓</td>
<td>Critique assignments</td>
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<tr>
<td></td>
<td>B. Communicate in a coherent and logical manner</td>
<td>✓</td>
<td>Critique assignments</td>
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<td>C. Present ideas in a clear and organized fashion.</td>
<td>✓</td>
<td>Critique assignments</td>
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<tr>
<td>3</td>
<td>Ethical Thinking</td>
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<td></td>
<td>A. Identify ethical issues in a problem or case situation</td>
<td>✓</td>
<td>CTRF papers</td>
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<td>B. Identify the stakeholders in the situation.</td>
<td>✓</td>
<td>CTRF papers</td>
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<td>C. Analyze the consequences of alternatives from an ethical standpoint.</td>
<td>✓</td>
<td>CTRF papers</td>
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<td>D. Discuss the ethical implications of the decision.</td>
<td>✓</td>
<td>Critique discussion</td>
</tr>
<tr>
<td>4</td>
<td>Core Business Knowledge</td>
<td>✓</td>
<td>Entire course</td>
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