University of Manitoba

Department of Supply Chain Management, Asper School of Business

SCM.2210 Principles of Transportation

Course Outline - Winter 2016

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 530, Tuesday and Thursday 1:00 - 2:15 p.m.
Drake Room 530, Tuesday and Thursday 2:30 - 3:45 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

<table>
<thead>
<tr>
<th>Cumulative Marks</th>
<th>Grade</th>
<th>GPA</th>
<th>Performance</th>
</tr>
</thead>
<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>
</tr>
<tr>
<td>50-59</td>
<td>D</td>
<td>1.0</td>
<td>Unsatisfactory</td>
</tr>
<tr>
<td>Below 50</td>
<td>F</td>
<td>0.0</td>
<td>Unacceptable</td>
</tr>
</tbody>
</table>

Grading System

<table>
<thead>
<tr>
<th>Percent of final grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mid-term exam</td>
</tr>
<tr>
<td>Critique participation</td>
</tr>
<tr>
<td>Three written critiques</td>
</tr>
<tr>
<td>Final exam</td>
</tr>
</tbody>
</table>

Examinations

The mid-term examination, worth 20% of your final grade, will be held during the evening of **Tuesday, February 11, 6 p.m. - 8 p.m. Room 343 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 worksheet must be handed in at the end of each class where one of the CTRF papers are discussed, except 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
Course Schedule – Winter 2016

**Week 1: January 7**

Course Introduction, distribution of CTRF Proceedings, course schedule, and critique outline

**Week 2: January 12/14**

Chapter 1: Transportation, Logistics and Technology

Chapter 2: The Demand for Transportation

**Week 3: January 19/21**

Chapter 3: Trade and Transportation Costs

Chapter 4: Laws of Variable Proportions and Scale

CTRF Reading & In-class Critique:


**Week 4: January 26/28**

Chapter 5: Cost Economies and Traceability

CTRF Reading & In-class Critique:


**Week 5: February 2/4**

Chapter 6: Modal Supply Characteristics

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


Or

Week 6: February 9/11

Chapter 7: Markets and Competition in Transportation

Thursday February 11, MID-TERM EXAM: exam in the evening 6 p.m. - 8 p.m. Room Drake 343

Week 7: February 15-19

Spring Break, no classes

Week 8: February 23/25

Chapter 8: Externalities, Public Supply and Marginal Cost Pricing

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

_A Steady but Uneven Climb: Air Passengers in Canada Since 9/11._ Trever Bova, Gwen Cromwell and Lawrence McKeown, page 32.

Or


Week 9: March 1/3

Chapter 9: Spatial and Temporal Pricing in Transportation

CTRF Reading & In-class Critique:


Week 10: March 8/10

Chapter 10: Product Pricing in Transportation

CTRF Reading & In-class Critique:

Week 11: March 15/17
Chapter 11: Transportation, Investment and Generalized Cost

CTRF Reading & In-class Critique:


Week 12: March 22/24

Chapter 12: Location and Land Settlement

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

*Peak-load Management and Surge Capacity in Western Canadian Grain Transportation.* Barry Prentice, page 382.

Or

*Cost Competitiveness of Re-Supply via Cargo Airship in Kivalliq, Nunavut*
Matthew Adaman, Barry E. Prentice, Professor and Dr. Paul Larson, page

Week 13: March 29/31

Chapter 13: Transportation and Government Policy

CTRF Reading & In-class Critique:


Week 14: April 5/7

Chapter 14: Regulatory Enforcement and Compliance

CTRF Reading & In-class Critique:

*Canada-United States Freight Rail Economic Comparison.* André Pretto and Joseph F. Schulman, page 56.
<table>
<thead>
<tr>
<th>Course Item(s) Relevant to these Goals and Objectives</th>
<th>Goals and Objectives Addressed in this Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Quantitative Reasoning</td>
<td></td>
</tr>
<tr>
<td>A. Determine which quantitative analysis technique is appropriate for solving a specific problem.</td>
<td></td>
</tr>
<tr>
<td>B. Use the appropriate quantitative method in a technically correct way to solve a business problem.</td>
<td></td>
</tr>
<tr>
<td>C. Analyze quantitative output and arrive at a conclusion.</td>
<td>✔ Quantitative analysis in CTRF papers</td>
</tr>
<tr>
<td>2 Written Communication</td>
<td></td>
</tr>
<tr>
<td>A. Use correct English grammar and mechanics in their written work.</td>
<td>✔ Critique assignments</td>
</tr>
<tr>
<td>B. Communicate in a coherent and logical manner</td>
<td>✔ Critique assignments</td>
</tr>
<tr>
<td>C. Present ideas in a clear and organized fashion.</td>
<td>✔ Critique assignments</td>
</tr>
<tr>
<td>3 Ethical Thinking</td>
<td></td>
</tr>
<tr>
<td>A. Identify ethical issues in a problem or case situation</td>
<td>✔ CTRF papers</td>
</tr>
<tr>
<td>B. Identify the stakeholders in the situation.</td>
<td>✔ CTRF papers</td>
</tr>
<tr>
<td>C. Analyze the consequences of alternatives from an ethical standpoint.</td>
<td>✔ CTRF papers</td>
</tr>
<tr>
<td>D. Discuss the ethical implications of the decision.</td>
<td>✔ Critique discussion</td>
</tr>
<tr>
<td>4 Core Business Knowledge</td>
<td>✔ Entire course</td>
</tr>
</tbody>
</table>