

SCM.2210 and ABIZ.2210 A02
Principles of Transportation

Fall 2023

115 Drake Tuesday/Thursday 2:30 -3:45 pm

TERRITORY ACKNOWLEDGEMENT

The University of Manitoba campuses are located on original lands of Anishinaabeg, Cree, Oji-Cree, Dakota and Dene peoples, and on the homeland of the Métis Nation. We respect the Treaties that were made on these territories, we acknowledge the harms and mistakes of the past, and we dedicate ourselves to move forward in partnership with Indigenous communities in a spirit of reconciliation and collaboration.

INSTRUCTOR

Name: Dr. Barry E. Prentice

Office: 614 Transport Institute

Phone: 204-261-5666

Email: barry_prentice@umanitoba.ca

Office hours: 4 pm to 5:30 pm

Tuesdays and Thursdays, or by appointment; virtual meetings in this case

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

Dr. Prentice has authored or co-authored more than 350 research reports, journal articles book contributions and a popular textbook. 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, which Dr. Prentice headed from 1996 to 2005, he organized national and international conferences on sustainable transportation (*Railways and the Environment*), supply chain logistics (*Planes, Trains & Ships*), agribusiness logistics (*Fields on Wheels*), 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 Honorary Life Member of the Canadian Transportation Research Forum. Since 2015, he is a Fellow in Transportation at Northern Policy Institute. In 2018, he won the CanInfra Challenge People's Choice, Award, for his "Electric Airship Transportation System" proposal. Re-appointed as Director of the Transport Institute, 2022.

Dr. Prentice was instrumental in founding a new Department of Supply Chain Management (SCM) at the I. H. Asper School of Business. In the fall of 2003, a major in transportation and supply chain management was formed within in the B.Comm. (Hons.) program. Subsequently, an M.Sc. and M.A. in supply chain management has been initiated, a SCM functional concentration has been established in the MBA program and a PhD program is beginning in the fall of 2023.

Dr. Prentice has served on the Boards of Directors of several transportation organizations: *National Transportation Week* (President, 2001 and 2003), *Canadian Institute for Traffic and Transportation*

(Honourary President, 2001-3) and the *Canadian Transportation Research Forum* (President, 1997). In 2005, Dr. Prentice co-founded *ISO Polar*, as a not-for-profit association 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*, *Council of Canadian Academies* (2012-14), *Statistics Canada Industry Advisory Committee* (2010-18), expert committees, and is frequently asked to speak on the topics of trade and transportation.

COURSE ELEMENTS

Credit value	3	Leadership	No	IT skills	No	Global view	Yes
Ethics	No	Numeracy	No	Written skills	Yes	Participation	Yes
Innovation	Yes	Group work	Yes	Oral skills	Yes	Evidence-based	Yes
Experiential	Yes	Final exam	Yes	Guest speakers(s)	Yes		

REQUIRED TEXTBOOK AND/OR MATERIALS

Prentice, Barry E. and Darren J. Prokop. *Concepts of Transportation Economics*. Singapore: World Scientific Publishing, 2016. (available in the Campus Bookstore and via E-books)

Required readings: selected papers that are being used in this course are available only through the Canadian Transportation Research Forum www.ctrf.ca. In order to acquire these papers, you must register as a student member. We have managed to secure a special rate with a discount for Asper students. Register as “Fall 2023 University of Manitoba Student” for \$30.00 + tax. This link will take you to the online membership form: <https://secure.e-registernow.com/cgi-bin/mkpayment.cgi?state=2371>. AFTER you have paid your membership dues, you must register for access to the CTRF members website at this link: https://ctrf.ca/?page_id=1852. Scroll down and fill in the form under “New User Registration”. Depending on when you register for your website account, it may take a day or two for authorization to be granted. To avoid further delay in receiving information please ensure registration is completed by September 20.

Please respect copyright laws. Photocopying textbooks, cases, or other reading material is a violation of copyright laws and is unethical, unless permission to copy has been obtained.

COURSE LEARNING OUTCOMES

1. a grasp of the scope and breadth of transportation in the Canadian economy	2. an understanding of economic theory as applied to the transportation sector
3. an appreciation of the role of direct, indirect and exogenous costs in freight rates	4. an insight on plant location and settlement patterns
5. knowledge of policy issues and the need for government intervention	

ASPER EQUITY, DIVERSITY & INCLUSION (EDI)

At the Asper School of Business, we believe that an exceptional learning environment is sustained by diverse perspectives, equitable opportunities, and inclusive spaces. We are committed to challenging biases and confronting discrimination; nurturing openness, empathy, and active participation in our collaborations; and creating inclusive communities that foster belonging for all students, staff and faculty. Above all, we strive to embed principles of equity, diversity, and inclusion in all elements of business education, in our classrooms and beyond.

[Report your EDI concerns here.](#)

REQUESTING RELIEF FOR MISSED ACADEMIC WORK/ EXAM AND LATE SUBMISSION POLICY

The self-declaration is in place of a sick note/supporting documentation, as per the Self-Declaration for Brief and Temporary Student Absences Policy. No additional documentation is required.

[Self-declaration form](#)

The Asper School has an approved [list of events](#) for which students are eligible for accommodation if they miss a term exam/test.

The “Self Declaration Policy and fillable form” can be found [here](#).

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.

The critiques are due Wednesday night at midnight on the week assigned. Late critiques will be accepted with a 50% discount of the grade.

Do not make travel plans before the Final Exam. I cannot let you take the exam earlier/later because you made bookings for an earlier date. In the event you have to miss the Final Exam for a valid reason, a request for a deferred exam must be made at your home Faculty’s Undergraduate Program Office (b_comm@umanitoba.ca, if you are an Asper student). Applying for a deferred exam does not guarantee your request will be granted.

ATTENDANCE POLICY

You are allowed a maximum of 4 unexcused absences. This does not include excused absences due to:

- a) medical and/or compassionate reason
- b) participation in an inter-university, provincial, inter-provincial, national, or international scholastic or athletic event
- c) religious obligations
- d) qualification for accommodation under one of the Asper approved list of events

Lack of regular attendance will result in a reduction of your participation grade.

ACADEMIC ACCOMMODATION

Student Accessibility Services (SAS) provides supports for students with disabilities and to foster success for your academic future. If you need help and support as a student please reach out to [the SAS office](#).

Students with disabilities may have academic accommodations that include extensions on course work and test deferrals. These accommodations are separate from the self-declaration for brief and temporary absence policy. A student or faculty member can contact an Accessibility Coordinator to discuss academic accommodations related to disability.

COMMUNICATION AND FEEDBACK

Students who wish to correspond with instructors or TAs directly via email must send messages that originate from their official University email account. This protects the confidentiality and sensitivity of information as well as confirms the identity of the student. Emails regarding course feedback should be sent to the instructor.

COURSE FORMAT AND HEALTH & SAFETY PROTOCOLS

This course will be taught in-person, unless there's a directive from the university that requires us to move to remote delivery. We will observe the health-related safety protocol mandated by the university.

Class format is highly interactive, and students are expected to participate actively in class discussions. Class time will comprise clarification of economic concepts and thinking exercises rather than a repeat of textbook material. Several research papers are critiqued in this course, that apply principles illustrated in the course material. Some invited guest speakers are also invited to share their experiences.

Stay home when sick

In line with our commitment to maintaining a healthy and safe campus environment, we kindly remind everyone to stay home when feeling unwell. We urge you to consider the well-being of others and be respectful of their choices when assessing your own health and ability to attend campus. UM continues to be a mask friendly space.

You can find the self declaration form [here](#) if you find yourself sick and need to miss class/exam/assignments.

What to do if you become ill while at UM:

1. If you have a mask, please wear it and leave the classroom, lab, or workspace immediately.
2. Perform hand hygiene (soap and water or hand sanitizer) and avoid contact with others and minimize contact with the physical environment.
3. Inform your instructor(s) or, if in residence, the appropriate individual.
4. Please remain off-campus and all UM facilities until cleared to return in accordance with self-assessment, testing results, and UM recommended isolation procedures.

AI TOOLS

AI tools can be used to enhance learning and problem-solving skills, but they should not replace independent thinking and learning. Students must exercise critical thinking when using AI tools and acknowledge their use in academic work. Prohibited uses include generating or completing academic work with AI tools without appropriate acknowledgement. Academic honesty is paramount, and

students should accurately represent their individual effort and knowledge. Faculty will provide guidance on AI tool usage and incorporate discussions on AI ethics and academic integrity. Violations may lead to disciplinary actions, including academic penalties or suspension.

TECHNICAL REQUIREMENTS

In the event health mandates or the instructor falling sick for an extended period require switching to remote delivery of classes, you will need a device enabled with a camera and microphone. Further, you will have to be in a location with a stable Internet connection that is strong enough for streaming video.

ASSESSMENT OF LEARNING

Grading System	Percent of final grade
Mid-term exam	25%
Critiques and Participation	10%
Group project	20%
Final exam	45%

The mid-term grades will be available before the VW deadline.

I will be using the following letter-grading scheme:

Cumulative Marks	Grade	GPA	Performance
90 and above	A+	4.5	Outstanding
80-89.99	A	4.0	Excellent
75-79.99	B+	3.5	Very Good
70-74.99	B	3.0	Good
65-69.99	C+	2.5	Satisfactory
60-64.99	C	2.0	Marginal
50-59.99	D	1.0	Unsatisfactory
Below 50	F	0.0	Unacceptable

Critiques

Research papers are assigned each week to be critiqued, beginning Week 6, as set out in the course outline. An analysis form will be provided to assist in the preparation. The content of the critiques can be divided roughly into three parts: a brief synopsis of the paper, an evaluation of the economic model(s), and a section in which you outline key findings or issues that you have learned from the paper. The critiques are to be submitted to the appropriate Drop Box on UMLearn, by midnight of Wednesday evening each week.

Group Projects

The class will be divided into 10 groups to work on a transportation supply chain project. Information on group projects will be distributed in class. The written documents are due November 9. In the subsequent three weeks each group will be given 10 minutes to present their findings.

Examinations

A two-hour mid-term examination, worth 25% of your final grade, will be held during the evening of Thursday, October 19, 6:30 p.m. – 8:30 p.m., at 343 Drake. A two-hour, comprehensive final exam,

worth 50% of your final grade, will be held during the final examination period at a time scheduled by the registrar.

MISSED EXAM AND LATE SUBMISSION POLICY

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.

The critiques are due Wednesday night at midnight on the week assigned. Late critiques will be accepted with a 50% discount of the grade.

Do not make travel plans before the Final Exam. I cannot let you take the exam earlier/later because you booked a flight ticket for a date earlier than the final exam. In the event you have to miss the Final Exam for a valid reason, a request for a deferred exam must be made at your home Faculty's Undergraduate Program Office (b_comm@umanitoba.ca, if you are an Asper student). Applying for a deferred exam does not guarantee your request will be granted.

ELECTRONIC DEVICE POLICY

There is no policy in the Asper School regarding use of electronic devices in class, but everyone knows that cell phones must be silenced.

Please obtain the permission of the instructor prior to audio/video-recording a lecture.

OUT OF CLASS COMMUNICATION

The lecture material for this course is pre-recorded and posted as MP4 files on UMLearn. You are expected to read the relevant chapters of the textbook and watch the lectures before class. During the class, we will be addressing key issues in the lectures and chapters, and doing questions related to these chapters. Failure to prepare before the class will be evident and will affect your understanding and participation.

Assignments will be submitted via the Assessment button of UM Learn.

REFERENCING STYLE FOR WRITTEN WORK

Group projects require sources to be referenced using the Chicago reference style.

CLASS SCHEDULE

Week 1: September 7

Course Introduction, schedule, CTRF case readings and critique outline, group projects

Week 2: September 12/14

Chapter 1: Transportation, Logistics and Technology

Chapter 2: The Demand for Transportation

Week 3: September 19/21

Chapter 3: Trade and Transportation Costs

Chapter 4: Laws of Variable Proportions and Scale

Week 4: September 26/28

No Formal Classes. Time to be used to begin field research on group projects.

Week 5: October 3/5

Chapter 5: Cost Economies and Traceability

Chapter 6: Modal Supply Characteristics

Week 6: October 10/12

Chapter 7: Markets and Competition in Transportation

CTRF Reading Critique: **Due October 11 by midnight**

Case 1: "Sustainable Transportation: Airships Versus Jet Airplanes." Barry E. Prentice and Robert Knotts. p. 305 – 2016

Week 7: October 17/19

Chapter 8: Externalities, Public Supply and Marginal Cost Pricing

CTRF Reading Critique: **Due October 11 by midnight**

Case 2: *How Can Cities Harness Mobility Pricing to Reduce Congestion, Promote Fairness, and Support Investment in Transportation Infrastructure?* Adrian Lightstone, Dirk van Amelsfort, Karin Brundell-Freij, Preeya Shah (2018)

Review Class for Mid-term

Mid-term, Thursday evening, October 19 Location: 343 Drake

Week 8: October 24/26

Chapter 9: Spatial and Temporal Pricing in Transportation

CTRF Reading Critique: **Due October 25 by midnight**

Case 3: *Truckload Freight Rates: Putting Theory to the Test.* Barry E. Prentice and Md Erfanul Hoque (2022)

Week 9: October 31/November 2

Chapter 10: Product Pricing in Transportation

CTRF Reading Critique: **Due November 1 by midnight**

Case 4: *Canada's Airports: The Economic Basis for a Not-For-Profit Governance Structure.* William G. Morrison, p. 211 - 2019

Week 10: November 7/9

Chapter 11: Transportation, Investment and Generalized Cost

CTRF Reading Critique: **Due November 8 by midnight**

Case 5: "Cargo Airships Versus All-Weather Roads - A Cost Comparison." Barry E. Prentice, Nirbir Grewal, Bryce Doell and Matt Adaman p. 89 – 2013

Group Projects Due

Week 11: November 14/16 – no classes

Remembrance Day and Fall Term Break



Week 12: November 21/23

Chapter 12: Location and Land Settlement

CTRF Reading Critique: **Due November 22 by midnight**

Case 6: “Canola crushing: location of a footloose industry.” Barry E. Prentice p. 117 - 2019

Group Presentations

Week 13: November 28/30

Chapter 13: Transportation and Government Policy

CTRF Reading Critique: **Due November 29 by midnight**

Case 7: *Regulation and Taxicab Licence Values: Winnipeg 2000-2021*. Barry E. Prentice, Narendra Malalgoda, and Joseph Monteiro (2022)

Group Presentations

Week 14: December 5/7

Chapter 14: Regulatory Enforcement and Compliance

CTRF Reading Critique: **Due December 6 by midnight**

Case 8: *Cold Chain Sustainability: Airships Versus Long-Haul Trucking*. Barry E. Prentice, John Wilms and Marcela Gonzales Alba, (2021)

Group Presentations

IMPORTANT DATES AND DEADLINES

First day of class (this course)	-	Sept 7
Thanksgiving (no class)	-	Oct 9
Midterm Exam	-	Oct 19
Fall Term Break	-	November 13-17
VW deadline	-	Nov 21
Last day of class (this course)	-	Dec 7
Final Exam	-	Between Dec 12-22, as per university schedule

A list of all important dates and deadlines at the University of Manitoba can be [found here](#).

ACADEMIC HONESTY

Academic integrity is critical to the reputation of the Asper School of Business and for the degrees we award. As the Faculty that helps create business and government leaders, we have a special obligation to ensure that our ethical standards are beyond reproach. Therefore, the Asper School takes academic misconduct very seriously and does what it takes to uphold the highest academic integrity standards.

You can find information on what constitutes academic misconduct on the University of Manitoba's [Academic Integrity webpage](#). It is your responsibility to educate yourself on what's acceptable and what's not. Ignorance is no excuse. When in doubt, talk to your instructor.

Examples of academic misconduct include, but are not limited to:

- using the exact words from a published or unpublished source without quotation marks and without referencing that source both in-text and in the Bibliography
- reproducing a table, graph, or diagram, in whole or in part, without referencing the source
- paraphrasing someone else's words without referencing the source both in-text and in the Bibliography
- using a paper (or parts of it) that was submitted in one course for an assignment in another course, without discussion with both the instructors involved
- getting your assignment done by someone else, either for payment or otherwise
- using material available on file-sharing sites such as Course Hero, Chegg, etc. Uploading material to such sites also constitutes academic misconduct depending on what is shared.
- copying the answers of another student in any exam or assignment
- providing exam answers or assignments to other students via any medium or obtaining them from other students or websites
- taking any unauthorized materials into an examination (crib notes), regardless of whether those are used during the exam
- recording exam questions using any method, regardless of whether those are shared with others
- sharing exam questions with those who are yet to take the exam, including future students or attempting to sell exam questions
- impersonating another student or getting another person to impersonate you for the purpose of attendance, earning class participation marks, submitting academic work, or writing an exam
- changing any part of test answers after that test has been graded and returned

Group Projects and Group Work

Many courses in the Asper School require group projects. All group members should exercise special care to ensure that the group project is free from plagiarism. Should a violation occur, group members are jointly accountable unless the violation can be attributed to specific individuals.

Some courses, while not requiring group projects, encourage students to work together in groups before submitting individual assignments. If it's unclear whether it is allowed, students are encouraged to seek clarification from the instructor to avoid violating the academic integrity policy.

In the Asper School of Business, all suspected cases of academic misconduct in undergraduate courses are reported to the Dean's office and follow the approved [disciplinary process](#).

See following table for typical penalties for academic misconduct in the Asper School.

TYPICAL PENALITIES FOR ACADEMIC MISCONDUCT IN THE ASPER SCHOOL

If the student is from another Faculty and the academic misconduct is committed in an Asper course, the student's Faculty could match or add penalties beyond the Asper School's.

F-DISC on transcript indicates the F is for disciplinary reasons.

ACADEMIC MISCONDUCT	PENALTY
Cheating on exam (copying from or providing answers to another student)	F-DISC in course Suspension from taking Asper courses for 1 year Notation of academic misconduct in transcript
Sharing exam questions electronically during exam	F-DISC in course Suspension from taking Asper courses for 1 year Notation of academic misconduct in transcript
Possession of unauthorized material during exam (e.g., cheat notes)	F-DISC in course Suspension from taking Asper courses for 1 year Notation of academic misconduct in transcript
Altering answer on returned exam and asking for re-grading	F-DISC in course Suspension from taking Asper courses for 1 year Notation of academic misconduct in transcript
Plagiarism on assignment	F-DISC in course Suspension from taking Asper courses for 1 year Notation of academic misconduct in transcript
Submitting paper bought online	F-DISC in course Suspension from taking Asper courses for 1 year Notation of academic misconduct in transcript
Inappropriate Collaboration (collaborating with individuals not explicitly authorized by instructor)	F-DISC in course Suspension from taking Asper courses for 1 year Notation of academic misconduct in transcript
Group member had knowledge of inappropriate collaboration or plagiarism and played along	F-DISC in course Notation of academic misconduct in transcript
Signing Attendance Sheet for classmate	F-DISC in course Notation of academic misconduct in transcript
Attempting to sell exam	F-DISC in course Suspension from taking Asper courses for 18 months Notation of academic misconduct in transcript

SPIRITUAL CARE AND MULTI-FAITH CENTRE

Academic accommodation for religious, Indigenous or spiritual observances [multi-faith calendar](#).

The [Spiritual Care and Multi-Faith Centre \(SCMC\)](#) supports students as they navigate through the highs and lows of academic life, helping to piece together and make sense of the troubling, confusing, and exciting parts that make up their lives.

Spiritual health services are available to all, whether you identify as spiritual, atheist, religious or agnostic. We recognize, affirm and work with your existing values and beliefs.

STUDENT SERVICES AND SUPPORTS

The University of Manitoba provides many different services that can enhance learning and provide support for a variety of academic and personal concerns. You are encouraged to visit the below websites to learn more about these services and supports.

If at any time you feel that your personal safety is in jeopardy, you can contact Security Services for a variety of supports.

Empower Me (free for U of M students) 1-844-741-6389

Klinik Crisis Line (24hrs) 204-786-8686 or 1-888-322-3019

Emergency Contact

- 555 from any university phone or #555 from MTS or Rogers Wireless
- 204-474-9341 from all other phones
- Any emergency phone on campus

Non-Emergency Contact

- Safewalk/Fort Garry Campus: 204-474-9312

Winnipeg Police Services

Contact this service if you feel concern for your safety, or if you would like to make a report of criminal behavior.

- Winnipeg Police (emergency line) 911
- Winnipeg Police (non-emergency line) 204-986-6222

More resources

Concern	Link
Reporting discriminatory behavior by another university member	Speak Up
Tech-related issues with UM Learn or videoconferencing	Information Services & Technology
Admission, Registration, Tuition Fees, Important Dates, Final Exams, Graduation, and Transcripts	Registrar's Office
Academic policies & procedures, regulations, Faculty-specific information, degree and major requirements	Academic Calendar
Help with research needs such as books, journals, sources of data, how to cite, and writing	Library Resources
Tutors, workshops, and resources to help you improve your learning, writing, time management, and test-taking skills	Writing and Learning Support
Support and advocacy for students with disabilities to help them in their academic work and progress	Student Accessibility Services
Copyright-related questions and resources to help you avoid plagiarism or intellectual property violations	Copyright Office
Student discipline bylaws, policies and procedures on academic integrity and misconduct, appeal procedures	Academic Integrity

Policies & procedures with respect to student discipline or misconduct, including academic integrity violations	Student Discipline
Students' rights & responsibilities, policies & procedures, and support services for academic or discipline concerns	Student Advocacy
Your rights and responsibilities as a student, in both academic and non-academic contexts	Your rights and responsibilities
Medical services for any physical or mental health issues	University Health Service
Information on health topics, including physical/mental health, alcohol/substance use harms, and sexual assault	Health and Wellness
Mental health, including anxiety, stress, depression, help with relationships or other life concerns, crisis services, and counselling.	Student Counselling Centre
Support services available for help regarding any aspect of student and campus life, especially safety issues	Student Support Case Management
Resources available on campus, for environmental, mental, physical, socio-cultural, and spiritual well-being	Live Well @ UofM
Help with any concerns of harassment, discrimination, or sexual assault	Respectful Work and Learning Environment
Concerns involving violence or threats, protocols for reporting, and how the university addresses them	Violent or Threatening Behaviour