



The
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to compete

**BUSI - 3305 LOGISTICS AND TRANSPORTATION
FALL - 2017**

Instructor:	Aaron L. Nsakanda, Ph.D., Associate Professor of Supply Chain Management Office: 903 Dunton Tower, phone: 520-2600 ext. 2210, email: aaron.nsakanda@carleton.ca
Course location:	SA517
Timetable:	Tuesdays 2:35pm - 5:25pm
Office hours:	Tuesdays 12:30pm - 2:00pm; Fridays 3:00 pm - 4:30 pm

UNDERGRADUATE CALENDAR DESCRIPTION

Overview of logistics and transportation concepts, their roles in creating overall supply chain value. Strategic management and integration on the global basis of core activities, functions, and processes; network design and planning, performance metrics, recent trends in logistics and transportation.

A. COURSE DESCRIPTION

Logistics and transportation operations involve getting the right good or service, in the right way, in the right quantity and right quality, in the right place at the right time, for the right customer at the right cost. The growing demand for a broad range of goods and services, the escalation in global trade, the increasing regulation, cost pressures and the worldwide competition are creating the need for greater operational effectiveness and efficiencies for logistics and transportation operations in both services and manufacturing organizations. This course is designed to convey the principles, techniques and methods employed in order to be effective in managing logistics and transportation operations domestically or internationally. Topics explored include strategic management and integration on the global basis of core logistics and transportation activities, functions, and processes; network design and planning; performance metrics; and recent trends in logistics and transportation. The material is organized to enable both participants to appreciate the value offered by a variety of management practices and concepts as means for transforming logistics and transportation operations in order to deliver better results. The format of the course consists of a mixture of lectures exposing the relevant materials, case solving and discussions, presentations to peers, and whenever possible the use of guest speakers and class field trips.

B. COURSE LEARNING OBJECTIVES

Upon completion of this course, students should be able to:

- (a) Develop an understanding of the strategic importance of logistics and transportation in the overall process of creating supply chain value, the formation of business strategy and the execution of successful operations.

- (b) Develop an understanding of activities, functions, and processes that comprise logistics and transportation; their interrelationship and how they affect customer service, corporate performance and competitive advantage.
- (c) Develop an understanding of the role and importance of various key logistics and transportation intermediaries that facilitate global trade.

C. COURSE PREREQUISITES -

Third year standing and BUSI 2301 with a grade of C or higher, and STAT2606 with a grade of C- or higher. **The School of Business enforces all prerequisites.**

D. COURSE MATERIAL

1. Required textbook

There is not a sole textbook for this course. Chapters from the following books will instead be used as references, given their broader fit with the course objectives:

Authors and title	Referenced chapters
(a) Murphy, P. R., Wood, D. F. (2011): Contemporary Logistics, Tenth edition, Prentice Hall, 311 pages. (Hereafter [MW])	1*, 4, 10, 11, 12, and 14
(b) Coyle, J. J., Novack, R.A., Gibson, B. J., Bardi, E. J. (2011): Transportation - A Supply Chain Perspective, Seventh edition, South-Western, 528 pages. (Hereafter [CNGB])	4*, 10, 11, and 12
(c) Chopra, S., Meindl, P. (2013): Supply Chain Management - Strategy, Planning, and Operation, Fifth edition, Pearson, 516 pages. (Hereafter, [CM])	4, 14*
(d) Kasilingam, R.G. [1998]: Logistics and Transportation, Kluwer Academic Publishers, 297 pages. (Hereafter, [KR])	9*

Chapters with (*) will be made available electronically through the reserve library (ARES). A small number of reading materials (see section F for more details) will need to be purchased from Harvard Business Publishing.

2. Class notes and readings

Instructor's lecture notes will be available for download on the course website (see CuLearn).

D. COURSE EVALUATION

The course evaluation will be based on four main activities: case study write-ups, a report and presentation on Canadian transportation industry profile, a term research project and presentation, and a final exam. The weighting of each activity is as follows:

1. Case study managerial reports (4 unequally marked as follows: 10%, 10%, 10% and 15%)	45%
2. Report and presentation on Canadian transportation industry profile	15%
3. Final examination (opened notes and books with no internet access)	40%
TOTAL	100%

1. Examination (40%)

The final exam will be opened book, opened notes (with no access to the internet). This exam will be comprehensive (i.e., will cover all course materials) and questions will come from readings, case studies, in-class exercises, lecture notes. It may consist of multiple-choice questions, short-answer questions, essay questions, mini-case analysis, or problems. University will establish and announce the date for the final exam. No make-up will be given for missing the final exam, except for documented and acceptable emergencies (as defined by university standard). Students are advised that exam papers will not be returned back to them after being marked. They will only be available for consultation at the instructor's office. More details will be discussed in class.

2. Case study managerial reports (45%)

There will be a total of four case write-ups of quality suitable for consulting practice. Each case write-up will be done in groups (number of students per group will be announced with each report). It must include (a) a cover letter, (b) an executive summary consisting of the more important results, conclusions, and recommendations; and (c) the main body consisting of answers to the assigned questions, assumptions and analyses that led to these answers. The managerial reports are handed in on the due date at the beginning of each class. An initial twenty (20) percentage points penalty applies to a late assignment and an additional ten (10) percentage points per day thereafter. Students are advised that managerial reports will not be returned back to them after being marked. However, they will be available for consultation at the instructor's office. Be sure to keep a copy for yourself. The time limit for a revision request is 1 week after the marks are communicated. Although discussions between participants are encouraged, no collaboration is allowed between groups.

3. Report and presentation on Canadian transportation industry profile (15%)

Students in groups (number to be determined) will be assigned a sector of the Canadian transportation services (water and pipeline, air, rail, truck) and present a report that outlines, among others, (a) the contributions to the Canadian economy, (b) sector overview (the types of firms operating in the sector), (c) the operating and service characteristics of the sector.

E. CONDUCT

Professional conduct is built upon the idea of mutual respect. Such conduct entails (but is not necessarily limited to):

- *Attending the class.*

Each class benefits from the attendance and participation of all participants. Class attendance is mandatory. The participation grade will be affected by absences. If any circumstances prevent attendance to the class, the participant is responsible for all materials discussed, handouts distributed, assignments covered, and announcements made.

- *Arriving on time.*
Late arrivals are disruptive and show disrespect to those who are on time. Late arrivals are not allowed.
- *Minimizing disruptions.*
Participants are not allowed to leave and re-enter the class. All cell phones and electronic communication devices must be turned off during class. If an emergency situation requires keeping the cell phone turned on, it must be set in the silent mode and it is advised that the instructor be informed prior to the class starting. Participants should also avoid engaging in side conversations after class has begun.
- *Focusing on the class.*
Participants are not allowed to use laptops or hand-held devices for other tasks than notes taking while in class. Activities such as net surfing, and answering email are very disruptive both to neighbors and to the entire class.
- *Being prepared for class.*
Participants must be ready to discuss any assigned readings and to answer any assigned questions.
- *Respect.*
Participants should act respectfully toward all class participants.

F. TENTATIVE SCHEDULE*

Section	Week # (as per the tentative schedule)													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
A	9	9	9	9	10	10	10	10	10	11	11	11	11	12
	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	5	12	19	26	3	10	17	24	31	7	14	21	28	5

Week(s)	Title	Topic(s)
1	No classes - Academic Orientation	
2	○ Course introduction and overview	○ Course outline
	○ Logistics - What and Why?	○ Scope of logistics ○ Economic impacts of logistics ○ Logistical relationship within the firm ○ Organizing logistics within the firm ○ Professional logistic organizations
	Readings ○ [MW]: Chapter 1** ○ [MW]: Chapter 4 (pp 56-60)	
3-4	○ Logistics in practice	○
	○ Case study and analysis methodology	○
	○ Warehousing - design and management	○ Warehousing facilities value adding role and functionality

		<ul style="list-style-type: none"> ○ Warehousing network designing options ○ Warehousing tradeoffs ○ Selecting a warehousing network design ○ Warehousing ownership arrangements ○ Warehousing operations ○ Warehousing management systems
	<p>Readings:</p> <ul style="list-style-type: none"> ○ [MW]: Chapter 10 ○ [CM]: Chapter 4 [pp 68-86] ○ Dollar tree logistics case study*** (HBC # UV1418, 17 pages, available for purchase from Harvard Business Publishing) ○ 3M Canada: the health care supply chain case study*** (HBC # 9B15D011, 10 pages, available for purchase from Harvard Business Publishing) 	
5	<ul style="list-style-type: none"> ○ Packaging and material handling 	<ul style="list-style-type: none"> ○ Fundamentals of packaging and material handling ○ Material handling equipment
	<p>Readings: [MW] - Chapter 11</p>	
	<p>○ Case study # 1 write-up due (week 5)</p>	
6-10	<ul style="list-style-type: none"> ○ Report and presentation on Canadian transportation industry profile (week 6) 	
	<ul style="list-style-type: none"> ○ Warehouse (transportation) facility tour (week 10) 	
	<ul style="list-style-type: none"> ○ Case-study # 2 write-up due (week 10) 	
	<ul style="list-style-type: none"> ○ Transportation - Fundamentals 	<ul style="list-style-type: none"> ○ Transportation in Canada's economy (Canadian industry profile) ○ Role of transportation and challenges in carrying this role ○ Modes of transportation and their performance ○ Trade-offs in Transportation design ○ Tailored transportation
	<p>Readings:</p> <ul style="list-style-type: none"> ○ [CM]: Chapter 14** ○ [MW]: Chapter 12 ○ Note on the Canadian transportation industry*** (HBN #906D03, available for purchase from Harvard Business Publishing) 	
11-12	<ul style="list-style-type: none"> ○ Managing logistics internationally - transportation planning 	<ul style="list-style-type: none"> ○ Overview of global transportation ○ Export preparation activities ○ Transportation planning
	<p>Readings</p> <ul style="list-style-type: none"> ○ [CNGB]: Chapter 10 	
	<ul style="list-style-type: none"> ○ Managing logistics internationally - transportation execution 	<ul style="list-style-type: none"> ○ Overview of global freight flows ○ Global transportation providers ○ Port operations and customs clearance

	<ul style="list-style-type: none"> ○ Managing logistics internationally - outsourcing 	<ul style="list-style-type: none"> ○ X-/Party logistics (X=3,4,5)
	Readings: <ul style="list-style-type: none"> ○ [CNGB]- Chapter 12 ○ Bolloré Logistics Canada and the use of incoterms case study*** (17 pages, available for purchase from Harvard Business Publishing) 	
13	<ul style="list-style-type: none"> ○ Measuring Logistics performance metrics 	<ul style="list-style-type: none"> ○ Classification of logistics metrics ○ Issues in logistics metrics
	<ul style="list-style-type: none"> ○ Readings: [RK]- Chapter 9** 	
	<ul style="list-style-type: none"> ○ Case-study # 3 write-up due (week 13) 	
14	<ul style="list-style-type: none"> ○ Course wrap-up ○ Case study # 4 write-up due (Friday, Dec 8th at the latest) 	

*Every effort has been made to make the schedule as complete as possible, but there may be occasions where changes are required. The instructor will announce any deviations from the course outline in class.

** Chapters available for download through ARES.

*** Materials available for purchase from Harvard Business Publishing.

H. SUMMARY OF DELIVERABLES

Deliverables	Due date
1) Case study # 1 managerial report	Week # 5 (October 3, 2017)
2) Report and presentation on Canadian transportation industry	Week # 6 (October 10, 2017)
3) Case study # 2 managerial report	Week # 10 (November 7, 2017)
4) Case study # 3 managerial report	Week # 13 (November 28, 2017)
5) Case study # 4 managerial report	Week # 14 (December 8, 2017)

I. IMPORTANT ADDITIONAL INFORMATION

Course Sharing Websites

Student or professor materials created for this course (including presentations and posted notes, labs, case studies, assignments and exams) remain the intellectual property of the author(s). They are intended for personal use and may not be reproduced or redistributed without prior written consent of the author(s).

Required calculator in BUSI course examinations

If you are purchasing a calculator, we recommend any one of the following options: Texas Instruments BA II Plus (including Pro Model), Hewlett Packard HP 12C (including Platinum model), Staples Financial Calculator, Sharp EL-738C & Hewlett Packard HP 10bII.

Group work

The Sprott School of Business encourages group assignments in the school for several reasons. They provide you with opportunities to develop and enhance interpersonal, communication, leadership, follower-ship and other group skills. Group assignments are also good for learning integrative skills for putting together a complex task.

Your professor may assign one or more group tasks/assignments/projects in this course. Before embarking on a specific problem as a group, it is your responsibility to ensure that the problem is meant to be a group assignment and not an individual one.

In accordance with the Carleton University Undergraduate Calendar (p 34), the letter grades assigned in this course will have the following percentage equivalents:

A+ = 90-100	B+ = 77-79	C+ = 67-69	D+ = 57-59
A = 85-89	B = 73-76	C = 63-66	D = 53-56
A - = 80-84	B - = 70-72	C - = 60-62	D - = 50-52
F = Below 50	WDN = Withdrawn from the course		
DEF = Deferred			

Academic Regulations, Accommodations, Plagiarism, Etc.

University rules regarding registration, withdrawal, appealing marks, and most anything else you might need to know can be found on the university's website, here:

<http://calendar.carleton.ca/undergrad/regulations/academicregulationsoftheuniversity/>

Requests for Academic Accommodations

For Students with Disabilities:

The Paul Menton Centre for Students with Disabilities (PMC) provides services to students with Learning Disabilities (LD), psychiatric/mental health disabilities, Attention Deficit Hyperactivity Disorder (ADHD), Autism Spectrum Disorders (ASD), chronic medical conditions, and impairments in mobility, hearing, and vision. If you have a disability requiring academic accommodations in this course, please contact PMC at 613-520-6608 or pmc@carleton.ca for a formal evaluation. If you are already registered with the PMC, contact your PMC coordinator to send me your Letter of Accommodation at the beginning of the term, and no later than two weeks before the first in-class scheduled test or exam requiring accommodation (if applicable). Requests made within two weeks will be reviewed on a case-by-case basis. After requesting accommodation from PMC, meet with me to ensure accommodation arrangements are made. Please consult the PMC website (www.carleton.ca/pmc) for the deadline to request accommodations for the formally-scheduled exam (if applicable).

For Religious Obligations:

Students requesting academic accommodation on the basis of religious obligation should make a formal, written request to their instructors for alternate dates and/or means of satisfying academic requirements. Such requests should be made during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist, but no later than two weeks before the compulsory event. Accommodation is to be worked out directly and on an individual basis between the student and the instructor(s) involved. Instructors will make accommodations in a way that avoids academic disadvantage to the student. Students or instructors who have questions or want to confirm accommodation eligibility of a religious event or practice may refer to the Equity Services website for a list of holy days and Carleton's Academic Accommodation policies, or may contact an Equity Services Advisor in the Equity Services Department for assistance.

For Pregnancy:

Pregnant students requiring academic accommodations are encouraged to contact an Equity Advisor in Equity Services to complete a letter of accommodation. The student must then make an appointment to discuss her needs with the instructor at least two weeks prior to the first academic event in which it is anticipated the accommodation will be required.

Academic Integrity

Violations of academic integrity are a serious academic offence. Violations of academic integrity – presenting another’s ideas, arguments, words or images as your own, using unauthorized material, misrepresentation, fabricating or misrepresenting research data, unauthorized co-operation or collaboration or completing work for another student – weaken the quality of the degree and will not be tolerated. Penalties may include expulsion; suspension from all studies at Carleton; suspension from full-time studies; a refusal of permission to continue or to register in a specific degree program; academic probation; and a grade of Failure in the course, amongst others. Students are expected to familiarize themselves with and follow the Carleton University Student Academic Integrity Policy which is available, along with resources for compliance a <http://www2.carleton.ca/sasc/advisingcentre/academic-integrity/>.

Sprott Student Services

The Sprott student services office, located in 710 Dunton Tower, offers academic advising, study skills advising, and overall academic success support. If you’re having a difficult time with this course or others, or just need some guidance on how to successfully complete your Sprott degree, please drop in any weekday between 8:30am and 4:30pm. Our advisors are happy to discuss grades, course selection, tutoring, concentrations, and will ensure that you get connected with the resources you need to succeed! <http://sprott.carleton.ca/students/undergraduate/support-services/>
Be in the know with what’s happening at Sprott: Follow @SprottStudents and find us on Facebook SprottStudents Sprott.

Centre for Student Academic Support

The Centre for Student Academic Support (CSAS) is a centralized collection of learning support services designed to help students achieve their goals and improve their learning both inside and outside the classroom. CSAS offers academic assistance with course content, academic writing and skills development. Visit CSAS on the 4th floor of MacOdrum Library or online at: carleton.ca/csas.

Other Information:

- Students must always retain a hard copy of all work that is submitted.
 - All final grades are subject to the Dean’s approval.
 - For us to respond to your emails, we need to see your full name, CU ID, and the email must be written from your valid CARLETON address. Therefore, it would be easier to respond to your inquiries if you would send all email from your Carleton account. If you do not have or have yet to activate this account, you may wish to do so by visiting <http://carleton.ca/ccs/students/>
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K. Undergraduate Academic Calendar (Fall 2017)

September 4, 2017

- Statutory holiday, University closed.

September 5, 2017

- Academic Orientation. All students are expected to be on campus. Class and laboratory preparations departmental introductions for students and other academic preparation activities will be held.

September 6, 2017

- Fall and fall/winter classes begin.

September 15-17, 2017

- Summer deferred final examinations to be written.

September 19, 2017

- Last day of registration for fall term and fall/winter courses. Last day to change courses or sections (including auditing) for fall/winter and fall term courses.
- Graduate students who have not electronically submitted their final thesis copy to the Faculty of Graduate and Postdoctoral Affairs will not be eligible to graduate in Fall 2017 and must register for the fall 2017 term.

September 30, 2017

- Last day to withdraw from Fall term and Fall/Winter courses with a full fee adjustment (financial withdraw). Withdrawals after this date will create no financial change to Fall term fees.

October 6, 2017

- December examination schedule (fall term final and fall/winter mid-terms) available online.

October 9, 2017

- Statutory holiday, University closed.

October 15, 2017

- Last day for receipt of applications for admission to an undergraduate degree program for the winter term from applicants whose documents originate from outside Canada or the United States.

October 23-October 27, 2017

- Fall break, no classes.

November 10, 2017

- Last day to submit, to the Paul Menton Centre for Students with Disabilities, Formal Examination Accommodation Forms for December examinations. Late requests will be considered on case-by-case basis.

November 15, 2017

- Last day for receipt of applications for admission to an undergraduate degree program for the winter term.

November 24, 2017

- Last day for summative tests or final examinations or formative tests or examinations totalling more than 15% of the final grade before the official examination period (see examinations regulations in the Academic Regulations of the University section of the Undergraduate Calendar/General Regulations of the Graduate Calendar).

December 8, 2017

- Fall term ends. Last day of fall-term classes. Classes follow a Monday schedule. Last day for academic withdrawal from fall term courses. Last day for handing in term work and the last day that can be specified by a course instructor as a due date for term work for fall term courses. Last day for receipt of applications for undergraduate degree program transfers for winter term. Last day for take home examinations to be assigned, with the exception of those conforming to the examinations regulations in the Academic Regulations of the University section of the Undergraduate Calendar/General Regulations of the Graduate Calendar.

December 10-22, 2017

- Final examinations in fall term courses and mid-term examinations in fall/winter courses may be held. Examinations are normally held all seven days of the week.

December 22, 2017

- All take home examinations are due on this day, with the exception of those conforming to the examinations regulations in the Academic Regulations of the University section of the Undergraduate Calendar/General Regulations of the Graduate Calendar

December 25, 2017 through January 1st, 2018 inclusive

- University closed.