

# CARLETON UNIVERSITY BUSI 2301 A SUMMER 2023 INTRODUCTION TO SUPPLY AND OPERATIONS MANAGEMENT

**Instructor:** Vedmani Sharan

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Phone Number: TBD

Class Location: Nicole Building 4030

**Class Time:** 6:05 – 8:55 PM

TA: TBD

**Office Hours: TBD** 

Email: TBD

Modality: R section courses are Online; All other courses are In-Person

# **Pre-requisites & precluded Courses:**

Second year standing. Restricted to select Sprott programs.

# This course is a pre-requisite to:

- 1. BUSI 3301 (with a grade of C or higher)
- 2. BUSI 3309
- 3. BUSI 4301 (with a grade of C or higher)

# Course Calendar description from the 2022/2023 University calendar:

Concepts, models, and managerial issues in planning, designing, operating and controlling systems across supply chains for the provision of goods and services. Emphasis on basic ideas and tools.

# **Course Description:**

Operations Management (OM) deals with the management of systems that provide goods and services to customers. This function exists in all industries, including manufacturing, retail distribution, and government services. The goal of OM is to provide value to the customer via the pursuit of efficiency and effectiveness. In a broader sense, OM is also a set of concepts and tools that 2 can be useful in the management of the operations of any organization. Since operations are at the core of any business (without it, there is no business!), OM is an essential area of management study.

The objective of this course is to provide an introduction to the field of OM. It will give a survey of the main OM issues and the key concepts & tools for dealing with them. It is intended to provide a basic exposure for those who will be specializing in other business areas, and to serve as a first step for those wishing to do further studies on this topic. Since OM in the real world is in frequent contact with other business functions such as marketing and finance, this course will draw on terminology and concepts from these fields.

#### **Learning Outcomes:**

- 1. Define the operations function in an organization and understand its impact.
- 2. Apply technical and quantitative models to solve problems related to operations management.
- 3. Recognize the usefulness, limitations and pertinence of quantitative models to operations settings.
- 4. Develop and apply analytical and synthesis skills to operations settings.
- 5. Understand and perform a process analysis and estimate productivity indexes.
- 6. Forecast demand for a product/service based on time series.
- 7. Apply robust inventory management methods. Understand the concepts of lean operations.
- 8. Measure and interpret quality in each production or service delivery setting.

# Reading(s)/Textbook(s)/Required Materials (incl. technical requirements, i.e., webcam):

WJ STEVENSON, M HOJATI, & CAO, J. 2021, OPERATIONS MANAGEMENT, 7TH ED, McGraw-Hill Ryerson, Toronto. ISBN: 126032687X

#### **Course Requirements & Methods of Evaluation (including due dates):**

Quiz 1	15%
Quiz 2	15%
Quiz 3	15%
FINAL EXAM	45%
CLASS PARTICIPATION	10%



### Quiz

There will be three in-class quizzes given during the semester. The quizzes are close book. You should complete the quizzes by yourself.

#### FINAL EXAM

The final exam will be comprehensive. Both quantitative and qualitative questions can be expected. The date, time, and location of the final exam will be announced by the university. The Registrar's Office will determine the student's eligibility for a deferred final examination following the rules of the University. Students are advised that exam papers will not be returned back to them after being marked. They will be available for consultation only at the instructor's online office during office hours.

## **CLASS PARTICIPATION**

The instructor will give multiple choice, short answer, and the calculation questions during lecture. Each time the students submit answer through (tech TBD), the student will receive one class participation point (regardless the correctness of the answer). The students need to receive at least 70% of the participation points in order to get full participation mark (10% of the total grade). For example, if the instructor gives 50 questions throughout the semester, the students need to answer 50\*70%=35 questions in order to get full participation mark.

#### PARTICIPATION BONUS

The instructor assigns bonus points to the participation. For discussion questions, the students who submit answer through (tech TBD) will get 1 bonus point each time. For multiple choice and the calculation questions, the students who submit right answer through (tech TBD) will receive 1 bonus point. 1 bonus point is equivalent to 0.2% of the final exam grade. You can use the bonus points to add a Maximum of 10% to your final exam grade.

#### Course Schedule:

Week	Subject	Note
04-May-23	Introduction/Chapter 2-Competitiveness,	
	Strategy, and Productivity	
09-May-23	Chapter 3-Forecasting	
11-May-23	Chapter 6-Process Design and Facility	
	Layout	
16-May-23	Chapter 5Strategic Capacity Planning	Quiz 1
	/Chapter 4 - Product and Service Design	
18-May-23	Supplement 5- Decision analysis /	
	Supplement 6- linear programming <sup>1</sup>	
23-May-23	Chapter 11-inventory management	
25-May-23	Chapter 8-Location planning & Analysis	Quiz 2
30-May-23	Chapter 9-Management of Quality/	
-	Chapter 10- Quality Control	
01-Jun-23	Chapter 16-Job and Staff Scheduling	Quiz 3
06-Jun-23	Chapter 15-Suppy Chain Management	

08-Jun-23	Chapter 12-Aggregate Operations Planning	
13-Jun-23	Chapter 13-MRP/ERP	
TBD	Final Exam	All chapters

Note: 1. Supplements are available on Brightspace

# Contribution to Learning Goals of the Program ( $\underline{BCom}, \underline{BIB}$ ):

Program Learning	<b>Competencies Not</b>	Competencies	Competencies Taught	Competencies
Goal	Covered	Introduced (only)	But Not Assessed	Taught and Assessed
		CHECK (X)	ONE PER ROW	
BC1 Knowledge				
Graduates will be				
skilled in applying				
foundational				X
business knowledge				
to appropriate				
business contexts.				
BC2 Collaboration				
Graduates will be				
collaborative and				
effective				
contributors in				
team environments			X	
that respect the				
experience,				
expertise and				
interest of all				
members.				
BC3 Critical				
Thinking				
Graduates will be				
discerning critical				
thinkers, able to				
discuss different				
viewpoints,				X
challenge biases				
and assumptions,				
and draw				
conclusions based				
on analysis and				
evaluation.				
BC4				
Communication				
Graduates will be			v	
effective and			X	
persuasive in their				
communications.				
BI5 Global				
Awareness (BIB			X	
ONLY)				

Graduates will be globally-minded.		

#### ADDITIONAL INFORMATION

# **Course Sharing Websites**

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.

#### Grading

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			

Grades entered by Registrar:

WDN = Withdrawn from the course

DEF = Deferred

#### **Academic Regulations**

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: <a href="http://calendar.carleton.ca/undergrad/regulations/academicregulationsoftheuniversity/">http://calendar.carleton.ca/undergrad/regulations/academicregulationsoftheuniversity/</a>

### **Requests for Academic Accommodation**

You may need special arrangements to meet your academic obligations during the term. For an accommodation request, the processes are as follows:

## **Pregnancy Accommodation**

Please contact your instructor with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details, visit the Equity Services website:

carleton.ca/equity/wp-content/uploads/Student-Guide-to-Academic-Accommodation.pdf

# **Religious obligation**

Please contact your instructor with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details, visit the Equity Services website:

carleton.ca/equity/wp-content/uploads/Student-Guide-to-Academic-Accommodation.pdf

#### **Academic Accommodations for Students with Disabilities**

If you have a documented disability requiring academic accommodations in this course, please contact the Paul Menton Centre for Students with Disabilities (PMC) at 613-520-6608 or <a href="mailto:pmc@carleton.ca">pmc@carleton.ca</a> for a formal evaluation or contact your PMC coordinator to send your instructor your Letter of Accommodation at the beginning of the term. You must also contact the PMC no later than two weeks before the first in-class scheduled test or exam requiring accommodation (if applicable). After requesting accommodation from PMC, meet with your instructor as soon as possible to ensure accommodation arrangements are made. <a href="mailto:carleton.ca/pmc">carleton.ca/pmc</a>

#### **Survivors of Sexual Violence**

As a community, Carleton University is committed to maintaining a positive learning, working and living environment where sexual violence will not be tolerated, and its survivors are supported through academic accommodations as per Carleton's Sexual Violence Policy. For more information about the services available at the university and to obtain information about sexual violence and/or support, visit: <a href="mailto:carleton.ca/sexual-violence-support">carleton.ca/sexual-violence-support</a>

#### **Accommodation for Student Activities**

Carleton University recognizes the substantial benefits, both to the individual student and for the university, that result from a student participating in activities beyond the classroom experience. Reasonable accommodation must be provided to students who compete or perform at the national or international level. Please contact your instructor with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist.

<a href="https://carleton.ca/senate/wp-content/uploads/Accommodation-for-Student-Activities-1.pdf">https://carleton.ca/senate/wp-content/uploads/Accommodation-for-Student-Activities-1.pdf</a>

For more information on academic accommodation, please contact the departmental administrator or visit: **students.carleton.ca/course-outline** 

# **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.

Process: If an alleged violation occurs, all relevant documentation will be forwarded to the Dean. If the allegation proves true, the penalties may include; a grade of Failure on the submitted work and/or course; academic probation; a refusal of permission to continue or to register in a specific degree program; suspension from full-time studies; suspension from all studies at Carleton; expulsion from Carleton, amongst others. For a first offence, at a minimum, the penalty assigned will normally be a zero on the submitted work and at least a minimum full grade reduction of the final course grade. For a second offence, at a minimum, the penalty assigned will normally lead to a suspension from studies.

Students are expected to familiarize themselves with and follow the Carleton University Student Academic Integrity Policy which is available, along with resources for compliance at: <a href="https://carleton.ca/registrar/academic-integrity/">https://carleton.ca/registrar/academic-integrity/</a>.

#### **Sprott Student Services**

The Sprott Undergraduate Student Services Office offers program advising and overall student success support. Our team is available to discuss your academic goals and your program progression plans. We can also work with you to develop strategies for success, including study skills for Business. If you experience any difficulty this term or if you would like to access support, please contact our team at <a href="mailto:bcom@sprott.carleton.ca">bcom@sprott.carleton.ca</a> or at <a href="mailto:bb@sprott.carleton.ca">bcom@sprott.carleton.ca</a> or at <a href="mailto:bb@sprott.carleton.ca">bcom@sprott.carleton.ca</a>.

# **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.

#### **Important Information:**

- Students must always retain a 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, in order to respond to your inquiries, please send all email from your Carleton CMail account. If you do not have or have yet to activate this account, you may wish to do so by visiting <a href="https://carleton.ca/its/get-started/new-students-2/">https://carleton.ca/its/get-started/new-students-2/</a>