

### Objectives

The goal of this project is to expose you to some of the activities of typical supply chain managers. You will be looking at a company's data to help you in designing a supply chain that best suits the needs of its customers. You will be required to conduct a robust and comprehensive analysis and communicate your findings and insights using a written report and an oral presentation.

### Process

You are expected to thoroughly examine the data and recommend a supply chain policy based on the requirements and limitations of the system. The whole process should be sound and logical, and based on scientific and practical approaches.

The choice of tools, methodologies, and techniques is completely up to you. You are expected to do some research into the best methodologies and modeling techniques that best suit the problem at hand. These techniques are largely based on, but not limited to, the topics discussed in this course and previous courses. You are encouraged to explore tools and modeling methods that are extensions to some of the methods you studied. The teaching team is always available for consultations and guidance.

The work in a typical project is usually iterative. That is, it is almost likely that you will step back and review some parts of the projects to make sure that you have the right assumptions and the outcome of your steps make sense. Therefore, it is highly recommended to keep a documentation of all the steps taken while you are working on this project (or any project). This is especially important in this projects since it is possible that some of the data will change during the term. (The change in data, if any, will guarantee that the data provides a reasonable and feasible case, will be based on the feedback of the student teams, and will be timely announced.)

### Deliverables

1. Team Formation: Due Friday, 18th-May-2018. Send Aliaa an email with the list of the 2 – 4 members of the team. She will assign a team number randomly. Use this number in all future correspondence and submission.
2. A Written Report: Due Monday, 23rd-July-2018 at 12:00PM (noon). Submit your project report in PDF format on Learn. Only one member of the team is required to submit. See below for more details.
3. A Static-Slide Presentation: Due Tuesday, 24th-July-2018 at 12:00PM (noon). Submit your one static-slide presentation in PDF format on Learn. Only one member of the team is required to submit. See below for more details.
4. Delivering a Presentation: Due Tuesday, 24th-July-2018 (and, possibly, Wednesday, 25th-July) in class. See below for more details.

### Written Report

You should present your results in a tightly-written, professional report, 12-point font, double-spaced, one-inch margins all around, and 20-page maximum length (including appendices, etc.). Your report should look and feel professional, with clear language and efficient use of visual tools.

The Writing Centre at the University of Waterloo provides a host of resources to help you in your writing process. The workshops, online resources, and one-to-one meetings are designed to improve your writing skills and enhance your final product. Visit <https://uwaterloo.ca/writing-and-communication-centre/>.

The total weight for the written report is 25% of the total grade of this course. The evaluation of the report will be as follows.

- [5%] Understanding and analyzing the problem
- [5%] Choice of tools, models, and methods
- [5%] Depth and breadth of analysis
- [5%] Validity and comprehensiveness of conclusions
- [5%] Formatting and language

### **Presentation**

The oral presentation will follow the rules and guidelines of the 3MT; one static slide and three minutes of time. All the rules and evaluation criteria can be found here: <https://uwaterloo.ca/three-minute-thesis/>. The one exception can be regarding the number of presenters. The team can choose the member(s) who will be delivering the presentation. All team members will get the same grade.

### **Submission**

Submission will be on Learn. No late submission is allowed. The report and the presentation slide should be submitted in PDF format. Other files (Excel sheets, code files, etc.) can be submitted on Learn as well. When submitting Excel sheets, code files, etc., make sure the files are annotated and comments are added to make them easier to read and follow. Explicitly state your assumptions and logic. Explain your work such that a person with no familiarity with the problem can follow and reproduce your work.

Use the following naming scheme for all files submitted on Learn. Use the team number that will be assigned to you at all times. The following examples are for Team 3:

Report:	MSCI434_S18_Team3_Report.pdf
Presentation:	MSCI434_S18_Team3_Presentation.pdf
Excel file (inventory)	MSCI434_S18_Team3_InventoryCalculations.xls
...	

### **Responsible TA**

Aliaa ([aliaa.alnagggar@uwaterloo.ca](mailto:aliaa.alnagggar@uwaterloo.ca)) will be responsible for this project. Please contact her first for any questions and concerns regarding the project.