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# ESG UQAM 程序代写代做 CS编程辅导

**Syllabus** 8419 - Decision Making Technology v Dominik Jena

perations and Information Technologies **S**ciences de la Gestion du Québec à Montréal -dominik@ugam.ca

**General Description** 

Departme

The overall objective of the Course is to the January to the main quantitative technologies, developed by the operations research field, that are used to provide decision support to managers in various organizational settings. These technologies are largely applied in the context of planning and managing oth the operations and the property of organizations and companies that produce goods and services. In the present course, the technologies that will be presented are the following: 1) linear programming, 2) numerical simulation, and 3) distribution and network models. Emphasis will be placed on how to formulate decisional problems and how the different technologies can be used to perform numerical trial sit that are meaningful in a decision support context. Various examples, appearing in the management of operations, logistics and human resources, will be used to demonstrate how the various technologies are applicable in practical settings. Q: 749389476

**Reference:** 

- David R. Anderson, Dennis J. Sweeny, Thomas A. Williams, Jeffrey D. Camm and Kipp Martin (2011), Ap4 Introduction to Management Science Quantitative Approaches to Decision Making, South-Western Cengage Learning, 13th Edition.
- **NOTE:** The specific chapters are provided via the Moodle website associated with the course.

#### **Software:**

Specifically, the Solver macro and the inverse statistical functions will be introduced and used to perform the optimization and simulation functions, respectively.

## **Evaluation:**

For this course, one a single element is used for the evaluation:

*Individual in-class exam: 100%.* Students will do a single exam in-class. This exam is individual, meaning that no communication, no collaboration, and no copying among the students is allowed.

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## Grades: the following 解 spays the emvalence的 CS编程辅导

1 -	A- is equivalent to 3.7 out of
	4.3 (80 – 84)/100
# 6* <b>##</b> ####	4.3 (70 – 72)/100
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Tutor cs 34 4 // 100	Fail) is equivalent to 0 out of $4.3 (0-59)/100$
	1.5 (0 5)/100
	A is equivalent to 4.0 out of $4.3 (85-90)/100$ alent to 3.0 out of $6)/100$ alent to 2.0 out of $4)/100$

#### Session no.1

## • Introduction WeChat: cstutorcs

An introduction to the course will be provided here (i.e., the general objectives, content and the evaluation will be presented). In addition, the field of operations research will be defined (including a brief history) and the central probability approach to provide decision support will also be presented. Finally, a list of illustrative examples will be provided to introduce the different technologies that will be presented in the following sessions.

## Session no.2 Email: tutorcs@163.com

## Linear Programming

This presentation will include: 1) an introduction to the principles of how given decisional problems can be formulated as linear optimization models, 2) the general guidelines of the solution approach that is used to obtain optimal solutions for these models and 3) a tutorial on how to apply the Solver macro to solve linear models. Different examples, dealing with aggregated planning problems, will be provided to illustrate this technology.

• References: Chapters 3 and 4.

### Session no.3

## • Distribution and Network Models

In this session, network optimization models will be presented. Specifically, students will learn how various organizational problems can be formulated as models where specific flows (e.g., material, people, goods, etc.) are transported through a network while minimizing costs. The focus will be on showing how networks (i.e., a set of nodes that are connected by arcs) can be used as a modeling tool and how adapted EXCEL spreadsheets can be constructed to solve the resulting models. A wide gamut of examples, taken from the fields of logistics and operations management, will again be provided to show how this technology is applied.

• **Reference:** Chapter 6.

#### Session no.4

• Integer Linear 程序所能写代做 CS编程辅导
In this presentation, the usefulness of integer restrictions in linear programming will be

presented. In this context, it will be shown how integer variables (both general discrete and binary) can provide variety of decisions appearing in organizational settings. Different wide variety of decisions appearing in organizational ude selection, distribution and scheduling decisions, will be presented to the resulting on models will also be provided.

• Reference: Ch

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Assignment Project Exam Help

Email: tutorcs@163.com

QQ: 749389476

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