MATH 361 (MATH 601), Sec. E

Operations Research I Winter 2019

Course Instructor: Dr. R. J. Stern, Office: LB 901.19 (SGW), Phone: 514-848-2424, Ext. 3255

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Lectures: Tuesdays and Thursdays 14:45–16:00.

Office Hours: Tuesdays and Thursdays: 16:30–17:30.

Text: Operations Research: Applications and Algorithms, 4th Edition, by W.L.

Winston.

file:///C:/Users/ronst/Downloads/Operations%20Research%20by%20Wayne%

20L.Winston%204th%20Edition%20(1).pdf

Topics to be covered: Chapter 3. Introduction to Linear Programming (3.1-3.4).

Chapter 4. The Simplex algorithm for Goal Programming (4.1-4.8, 4.11-4.14).

Chapter 6. Sensitivity analysis and duality (6.1-6.3, 6.5-6.7),

Chapter 7. Transportation, assignment, and transshipment problems (7.1-7.3).

Chapter 11. Nonlinear Programming (11.2-11.4, 11.6, 11.8, 11.9).

Chapter 14. Game Theory

Calculators: Only calculators approved by the Department are permitted in the class test

and final examination. The calculators are the Sharp EL 531 and the Casio FX

300MS, available at the Concordia Bookstore.

Assignments: Students are expected to submit assignments. Late assignments will not be

accepted. Some questions (but not all) will be marked. Assignments, due

dates, and solutions will be posted on the course's Moodle website.

Mid-Term Test: There will be one mid-term test in week 7 or 8. PLEASE NOTE: It is the

Department's policy that tests missed for any reason, including illness, cannot be made up. If you miss a test, the Final Exam will count for 90% of your final

grade.

Final Examination:

At the end of course, there will be a 3-hour closed book final examination.

PLEASE NOTE: Students are responsible for finding out the date and time of the final exam once the schedule is posted by the Examination Office. Any conflicts or problems with the scheduling of the final exam must be reported directly to the Examination Office, not to your instructor. It is the Department's policy and the Examination Office's policy that students are to be available until the end of the final exam period. Conflicts due to travel plans will not be accommodated.

Final Grade:

The final grade will be the higher of (a) or (b):

- (a) 10% for the assignments, 30% for the midterm test, 60% for the final.
- (b) 10% for the assignments and 90% for the final examination.

If the grading scheme for this course includes graded assignments, a reasonable and representative subset of each assignment may be graded. Students will not be told in advance which subset of the assigned problems will be marked and should therefore attempt all assigned problems.

Academic Integrity and the Academic Code of Conduct

This course is governed by Concordia University's policies on Academic Integrity and the Academic Code of Conduct as set forth in the Undergraduate Calendar and the Graduate Calendar. Students are expected to familiarize themselves with these policies and conduct themselves accordingly. "Concordia University has several resources available to students to better understand and uphold academic integrity. Concordia's website on academic integrity can be found at the following address, which also includes links to each Faculty and the School of Graduate Studies: concordia.ca/students/academic-integrity." [Undergraduate Calendar, Sec 17.10.2]