

Introduction to Operations Research, 10th Edition, Hillier & Lieberman
(Currently under revision, please check its update weekly.)

Week	Sections	Topics	Exercises
1 (June 8-June 14)	3.1-3.6 4.1-4.7	Linear Programming Simplex Method Tabular Form Excel Solver Sensitivity Shadow Price	3.1(3, 5*) 3.2(2*) 3.4(5, 8*, 9, 12) 3.5(4, 6) 4.1(2, 4) 4.2(2) 4.3(3, 5, 7*) 4.4(2, 5*(b, c)) 4.5(1) 4.6(1(b), 3*(a, b), 5, 6, 7*(a, b)) 4.7(1, 2(a, b), 5)
2 (June 15-June 21)	5.2-5.3 6.1 15.1-3 15.5 Review	Simplex Method in Matrix Duality Game Theory Zero-Sum Game	5.2(1, 2) 5.3(1, 2, 3) 6.1(3, 4, 5*) 15.1(2) 15.2(2, 4, 6*) 15.4(3, 4*) 15.5(3*, 5, 9*)
3 (June 22-June 28)	Exam 1 on Monday, June 22 17.1-17.6	Queuing Theory Death Process	17.2(2*, 3*, 4, 5, 6, 7, 8*) 17.4(1, 2*, 3*, 5, 7) 17.5(3, 5*, 7, 8*, 9, 10, 11*) 17.6(2, 4, 6, 8*) 17.8(1, 2, 5)
4 (June 20-July 5)	S16.2-7 Exam 2 on Friday, July 3	Markov Chain	S16.2(2*, 3*) S16.3(1*, 2, 3) S16.4(1, 2) S16.5(1, 4, 5, 7*) S16.6(1*, 2, 5*) S16.7(1, 2)
5 (July 6-July 10)	11.1 11.2 11-3 Catch up and Review Final Exam on Friday, July 10	Dynamic Programming	11.2(1*a,b,c; 2; 3b,c; 4*) 11.3(2,3*,5)

Class Policies

Homework:

1. Homework will be assigned on Canvas. It will be collected on Monday, Wednesday, and Friday through Gradescope submission.
2. Homework past due date will not be accepted unless permission is granted in advance.
3. Homework without problem statements will not be accepted.

4. Homework submission to Gradescope will not be accepted if it is not in a single PDF document.
5. Exchange of ideas is encouraged. But with regard to collected homework such exchanges must not be shared in writing. This rule does not apply to group projects within the group but does apply between groups. The consequence for violating this rule is for me to divide evenly one score among all sufficiently similar works.

Project:

There will be one group project if time permits. It may require the use of the Matlab, a computer algebraic system which is made available free of charge to all UNL students. To install Matlab, go to <http://procurement.unl.edu/matlab-licenses>

Grade:

Points to be accumulated through the semester:

Homework	5 or 10/each
Hr. Exams	100/exam
Project	20/each
Final Exam	150

The standard number-to-letter grade conversion will be used for your course grade.