Production and Operations Management

29:623:311:H6

Summer 2017

- **Course Information**

  Instructor: Junming Liu, 1003B, 1Washington Park

  Email: jl1433@rutgers.edu

  Time & Place: Mon & Wed 6:00 PM-9:30 PM (1WP-512)

  Office Hours: Wednesday 3:00 pm-4:00 pm or by appointment

  Textbooks: "Operations Management", by Jonathan Eckstein. ISBN-13: 978-1-59271-268-7

- **COURSE OBJECTIVES**

  The objective of decision modeling is to develop mathematical models for a variety of business Production and Operations Management problems. Applications can be drawn from manufacturing, transportation and distribution, marketing and finance. Because Operations problems are usually complicated, the mathematical models used to represent them are typically analyzed and solved using computer software (spreadsheet add-ons or dedicated programs).

- **Grading Policy:**

  Midterm exam: 25%

  Final exam: 35%

  Quiz: 10%

  Homework: 30%

  At the end of course, homework, and exam scores with the weights specified in the syllabus will be combined to get an overall score from 0-100. This score may contain fractions, but it won't be rounded. I then rank these scores, and choose sensible cutoffs between A, B+, B, C+, C, D and F. The cutoffs do not come in predetermined places. An example, 90 is not guaranteed to be an "A".

- **Class Policy**

  Class materials for each class will be posted on Blackboard before class day. The use of cell phones or other mobile communication devices is disruptive, and is therefore prohibited during class. Except in emergencies, those using such devices must leave the classroom for the remainder of the class period. Students are permitted to use computers during class for note-

taking and other class-related work only. Those using computers during class for work not related to that class must leave the classroom for the remainder of the class period.

- **Exams and Quizzes**
  There will be two in-class quizzes and a final exam. All quizzes and exams will be closed-book and closed-notes. The final exam will be cumulative, covering all topics in the course.
  No make-up tests will be given.

- **Assignments**
  Assignments are due the beginning of the class period on the day they are due. **No assignment will be accepted after class or late including the reasons of absence.** If you are not in class on the due date, the assignment must be mailed so that it is postmarked on the due date.

- **General Information**
  Academic Integrity
  As a member of the Rutgers University community you are not to engage in any academic dishonesty. You are responsible for adhering to basic academic standards of honesty and integrity as outlined in the Rutgers University Policy on Academic Integrity for Undergraduate and Graduate Students.

- **Computer Software/Online Resources:**

  Most of the material and assignments will require the use of computer software. There are several software packages that can be used. If you are already familiar with one, feel free to use it.

  Most of the examples and cases will use MS Excel and the Solver Add in, which is general purpose decision modeling software, useful both for decision models as well as Operations Management

  Most relevant material will be posted on Blackboard. If you miss a class or forget your copy at home, please make sure you download and print an extra copy yourself in case we still need it for the next class.

Course Schedule- Summer 2017

***Schedule is tentative and Subject to Change**

Dates	Material to be covered	In-Class
July 10	Introduction to POM and Linear Programming (Ch. 1,2)	
July 12	Linear Programming (Ch. 3)	
July 17	LP:Sensitivity Analysis (Ch. 3)	
July 19	LP: Applications (Ch. 4) Quiz I	
July 24	Distribution and Network Models (Ch. 5)	
July 26	Integer Linear Programming (Ch. 10)	Midterm Exam (tentative)
July 31	Integer Linear Programming (Ch. 12)	
August 2	Project Scheduling(Ch . 9) Quiz II	
August 7	Inventory Models	
August 9	Waiting Line Models	
August 14	Waiting Line Models Course Review	
August 16	Final Exam	Final Exam