

MA 391 OPERATIONS RESEARCH ~ CASE STUDIES

CH 12, 13, OR 21 CASE STUDY	50 POINTS	DUE: FEBRUARY 25, 2019
CH 20 CASE STUDY	50 POINTS	DUE: APRIL 1, 2019
CH 9, 10, OR 21 CASE STUDY	50 POINTS	DUE: APRIL 22, 2019

The purpose of these case studies to improve your ability to take a problem from start to finish and to improve your technical writing skills. It is my goal that with each case study you write and read you will mature in your ability to communicate problems and their solutions to people who need that information.

These case studies will have two audiences that you must address. The first is the mathematically savvy, therefore you must include sufficient mathematical detail to convince them that your solution is correct. The second audience is the appropriate administrative or business manager, therefore you must include descriptive paragraphs that explain what your solution is and what you are doing in non-technical language.

Use Ch 20 from *Regression Modeling with Actuarial and Financial Applications* by Edward Frees as a guideline for organizing and writing your reports. It is strongly recommended to have some else (who is not working on the same chapter you are doing) in the class read your paper and critique the clarity of your presentation.

You will choose from the following case studies. Case studies not available in your textbook are available on the course website.

- 9.1 Shipping Wood to Market
- 10.2 Aiding Allies
- 12.2 Assigning Art
- 13.2 International Investments (good for those interested in actuarial topics)
- 13.3 Promoting a Breakfast Cereal
- 20.3 Planning Planers
- 20.4 Pricing under Pressure (good for those interested in actuarial topics)
- 21.1 Prudent Provision for Pensions (good for those interested in actuarial topics)

You will be graded on the following five criteria:

1. Accuracy of your solution
2. Clarity of the presentation of the problem
3. Clarity of the proposed solution
4. English/grammar/clear communication, etc.
5. Just the right amount of math included