

Routing for Social Good: Optimizing Human Milk Bank Logistics

Case Study Deliverables

3-5 Page Business Report

A clear, executive-level summary of your proposed plan, including all details needed for Milk Bank leadership to understand and implement it. Remember: the executives are *not* familiar with forecasting or optimization models, so the report must be written entirely in business terms.

Evaluation Criteria:

- 30% Plan is appropriate, realistic, and actionable
- 10% Demonstrates creativity and innovation (goes beyond a basic TSP)
- 5% Written as a business report understandable to non-technical executives. Professional, clean formatting throughout

Mathematical Formulation Document

Prepare a LaTeX document (template and code will be provided) that presents the mathematical formulation of your proposed model. Submit both the pdf of the formulation and the LaTeX code.

Evaluation Criteria:

- 25% Model accurately reflects the plan described in the business report
- 5% Formulation is neatly formatted, and LaTeX code runs correctly

Code Submission

Submit clean, well-commented code that corresponds to your mathematical model (sample format will be provided).

Evaluation Criteria:

- 20% Code runs correctly and aligns with the mathematical formulation
- 5% Readable, well-documented, and professionally formatted