Honors Mentored Research Proposal – Summer 2017

**Topic: Same-Day Delivery (SDD)**

The need for a feasible same-day delivery system has grown evermore significant as manufacturers, retailers, and customers have become accustomed to instant gratification. The purpose of my research is to develop a logistical strategy for companies in the United States to effectively deliver products to customers in the contiguous US on the same day an order is placed. The goal is to investigate the feasibility of **same-day delivery (SDD)** by studying any existing techniques, determine if an existing operation (FedEx) could be scaled up to meet the goal or if an independent operation would be necessary, and propose a feasible solution for a fully-functional same-day delivery system.

I plan to execute this research May 2017 – August 2017 with the guidance of Associate Professor, Dr. Jack Becker. We will correspond at the end of Spring 2017 semester to establish specific research questions, create a holistic timeline for completion, and iron out any remaining details. We will communicate once a week electronically, or in person as necessary, until a change in the demands of the project require an adjustment.

My research duties are to answer the previously stated questions and to propose a method that will allow a company to effect same-day delivery in the contiguous United States. The final project to be submitted for a grade will be a report of both my research as well as my proposal for same-day shipping.

**RESEARCH OBJECTIVES:**

1. **The goal is to investigate the feasibility of same-day delivery by studying any existing techniques,** determine if an existing operation (FedEx) could be scaled up to meet the goal or if an independent operation would be necessary, and propose a feasible solution for a fully-functional same-day delivery system.

   **Literature Search.** First 5 weeks; with research report on current status of Same-Day Delivery or Shipping (SDD) in U.S. 20-30 references; 15-20 pages.?

2. Next: **Outline a logistical strategy(ies) for a variety of companies in the United States to be able to deliver products to customers in the contiguous US on the same day an order is placed.**

   **Model Development:** Logistical Network(s) to enable SDD