

# Course Project Report Template

Name: Morgan Krueger & James Fenimore

- **Program code explanation.**

In this section, please answer the following questions by providing the corresponding pseudo codes if necessary. You may add extra explanation if needed.

1. How many threads did you create, and what are their specific functionalities? Describe these based on pseudocode.
  - a. We have not created any threads yet.
2. What is the duration of your virtual minute in the simulation (e.g., 10 ms, 100 ms)?
  - a. The duration of our virtual minute is to be determined.
3. How many semaphores, mutex locks, and condition variables did you use? Explain the reasons for using these synchronization objects.
  - a. The number of semaphores, mutex locks, and condition variables will be determined at a later date.
4. Are there any race conditions in the project? If so, how do you avoid them?
  - a. Yes, there are race conditions when establishing the arrival rate, waiting room, and the number of people per car.
5. How do you synchronize the threads every minute?
  - a. The synchronization will be determined at a later date.

- **Table output**

(N,M)	Total Arrival	Total GoAway	Rejection Ratio	Average Wait Time (mins)	Max Waiting Line
N=2,M=7					
N=2,M=9					
N=4,M=7					
N=4,M=9					
N=6,M=7					
N=6,M=9					

- **Figure outputs and related descriptions.**

