$\begin{array}{c} \textbf{CSCE 317 Spring 2018} \\ \textbf{QUIZ 5} \\ \textbf{Assigned Thursday, 18-04-19} \end{array}$

State Little's Law for open systems, using the average number of jobs in a system, the arrival rate, and the average time jobs spends in a system. Use standard notation.

Answer: $E[N] = \lambda E[T]$ Also acceptable (cf. Theorem 6.3): $\bar{N}^{TimeAverage} = \lambda \bar{T}^{TimeAverage}$

A professor takes 2 Ph.D. students per year on average. The average time to graduate is 5 years. How many students does the professor have on average? Answer: E[N] = 2 * 5 = 10 students