

**AMSC/MATH 420, Spring 2015**  
**Second Project on Modeling Epidemics: Uncertainty in Transmission Parameters**

The actual transmission parameters that best model an epidemic will probably be hard to estimate early in the epidemic, so this group will consider the transmission parameters to be chosen from probability distributions with a fairly large variance. In addition to choosing appropriate distributions, the team will also decide what quantity to minimize – this could be the *expected* number of people who contract the disease, or the *median* number, or the 90th percentile, for example.