M339J: Topics for In-Term Three

- ☐ The Poisson-gamma mixture.
- ☐ The binomial distribution.
- ☐ Poisson ”thinning” with conditioning.
- ☐ The $(a, b, 0)$ class.
- ☐ Aggregate loss models: expectation and variance.
- ☐ Aggregate loss models with a normal approximation.
- ☐ Aggregate loss models: the pmf of aggregate losses.
- ☐ Aggregate loss models: the cdf of aggregate losses.
- ☐ Stop-loss insurance.
- ☐ Interpolation theorem.
- ☐ Compound Poisson with stop-loss insurance.
- ☐ Compound Poisson with a probability calculation.
- ☐ Aggregate losses with an ordinary deductible per-loss.
- ☐ Maximum-likelihood estimation: First principles.
- ☐ Maximum-likelihood estimation: Individual unmodified data.
- ☐ Maximum-likelihood estimation: Grouped data.
- ☐ Maximum-likelihood estimation: Truncation and censoring.
- ☐ Maximum-likelihood estimation: Discrete distributions.