STATISTICS 806-4

Lifetime Data Analysis

Course Outline

Statistical methodology used in analyzing failure time data. Likelihoods under various censoring patterns. Inference using parametric regression models including the exponential, Weibull, lognormal, generalized gamma distributions. Goodness-of-fit tests. The proportional hazards family, and inference under the proportional hazards model. Stratification and blocking in proportional hazards models. Time-dependent covariates. Regression methods for grouped data.

1.   **Basic ideas**

2.