Semester course: STAT 7470 -- 3 CREDIT HOURS
(Crosslisted with PH-BIO 8230)

1. Transcript Abbreviation: (maximum 18 characters)
Advanced Longitudinal Data Analysis

2. Long course title
ADV LONG ANALYSIS

3. Course description: (maximum of 250 characters)
Classical and modern statistical approaches for continuous and
discrete longitudinal data. Random effects and growth curve models,
measurement error, generalized estimating equations, estimation with
missing data, multivariate longitudinal data.

4. Prerequisites / Co-requisites (use quarter and semester codes):
STAT 6802 (STAT 622) and STAT 6950 (STAT 645) or permission of
instructor

5. Exclusions (use quarter and semester codes):
Stat 726

6. A list of topics that make up the course: (One per line, max of
15 topics -- if you course description is a list of topics, I can
just use that list)
Exploratory analysis
General Linear models for longitudinal data
Marginal models and GEE
Generalized linear mixed models
Missing data and dropout
Advanced Topics from recent literature

7. Does your class have a component that is not just a lecture
(YES/NO):
NO

8. If your course is not a straight conversion and adds or removes
material, write a brief rationale for the change (one sentence - max
250 characters).
More material has been added from Stat 726.