Semester course: STAT 8570 -- 3 CREDIT HOURS

1. Transcript Abbreviation: (maximum 18 characters)

Adv Bayes Modeling

2. Long course title

Advanced Bayesian Analysis: Modeling

3. Course description: (maximum of 250 characters)

A systematic advanced treatment of areas of current interest in Bayesian analysis. Topics will be announced each semester.

4. Prerequisites / Co-requisites (use quarter and semester codes):

Stat 820 (quarters) or Stat 7303 (semesters), or permission of the instructor.

5. Exclusions (use quarter and semester codes):

(none)

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)

(Sample topics)

1 Exchangeability
2 Complex Bayesian models
3 Robust Bayesian methods
4 Nonparametric Bayesian methods
5 Semiparametric Bayesian methods
6 Objective Bayesian methods
7 Scientific Bayesian methods
8 Image analysis
9 Observational studies

7. Does you 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).

This course is a conversion of Stat 825, Adv Bayes Modeling, a topics course for Bayesian methods. The course moves from 3 quarter hours to 3 semester hours, allowing more topics to be covered, and allowing one to cover the material in greater depth.