1. Proposed course number

Stat 7755/PHBIO 7245

2. Semester credit hours 2

3. Long course title: Biostatistical Collaboration

4. Transcript Abbreviation: (maximum 18 characters) Biostat Collab [14 characters including the space]

5. Course description: (maximum of 250 characters)

Basic biomedical research methodologies; collaborate with biomedical researchers to design experiments and plan analyses; protocol preparation; professional skills development; statistical report preparation.

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

Prereq: Grad standing and permission of instructor; sufficient coursework in statistics or biostatistics to serve as a biostatistical consultant.

7. Exclusions (use quarter and semester codes):

Not open to students with credit for [Quarter: PHBIO 786/ Biostat 709] ; [Semester: PHBIO 7245/Stat 7755]

8. A list of topics that make up the course: (One per line, max of 15 topics -- if your course description is a list of topics, I can just use that list)

Elements of a biomedical protocol and NIH grants
Statistical properties of key biomedical assays
Statistical formulation of scientific hypotheses
Designing a study (in vitro, animal, or human subjects)
Writing a statistical analysis plan
Sample size estimation
Review of statistical consulting literature related to biomedical research
Professional communication with collaborators
Organizing a statistical report in support of science
Presentation of reports
Field experience: Participation in ongoing collaborative research activities.

9. Does your class have a component that is not just a lecture (If YES, state what it is):

Weekly 1 hr: Lecture/Discussion; 1hr: Conference/Presentation

10. 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).

PHBIO 786 (Biostatistics Consulting Lab) / BIOSTAT 709 (Biostatistical Collaboration)
BIOSTAT 709 was a companion course to IBGP 709 and IBGP 709 will not continue under the semester system; STAT 7755 will now be cross-listed with PHBIO 7245 (786)