

Assessment of Competencies for PhD **Biostatistics**

Competency	Course numbers
1. Apply descriptive and inferential methodologies according to the type of study design for answering a particular research question.	BIOS 576B: Biostatistics for Research BIOS 688: Statistical Consulting
2. Communicate understanding of the assumptions necessary for a given statistical procedure as well as the ability to determine if the assumptions are met for a given study design or data set.	BIOS 576B: Biostatistics for Research BIOS 688: Statistical Consulting
3. Demonstrate the ability to identify, articulate and implement sound study design, methodological and computational strategies for addressing scientific questions.	STAT 675: Statistical Computing
4. Demonstrate the ability to communicate effectively in writing reports, giving oral presentations, and teaching basic statistical material in a formal classroom or seminar setting.	HPS 609: Evaluating the Public Health Literature STAT 675: Statistical Computing BIOS 688: Statistical Consulting
5. Demonstrate the use of statistical theory necessary for the development and study of new statistical methods or to adapt existing methods to new or unique problems.	BIOS 687: Theory of Linear Models MATH 564: Theory of Probability MATH 566: Theory of Statistics