Biostatistics & Data Science Learning Assessment Response Form

Name:

Date:

1 & 2: Learning goals & Outcome measures – please list the program's formal learning goals and associated outcomes measures	
Learning goal	Outcome measure(s)
 Demonstrate understanding of central statistical concepts, apply appropriate statistical methods to research question use appropriate software to produce reproducible results 	 Homework assignments, labs and written exams Successful completion of <i>Biostatistics I with R</i> Successful completion of <i>Categorical and</i> <i>Censored Data Analysis</i>
 Manipulate, organize and visualize com messy data efficiently and effectively ar execute best practices for reproducible research as well as best coding practices 	 Plex Homework assignments, labs and written exams Successful completion of <i>Data Science I (with</i> <i>R and Python)</i> Additional depth with another programming language: Elective course on "Statistical Programming with SAS" Additional depth in creation, organization and maintenance of databases: Elective on "Data Management"
 Understand data generating processes, and cons of different study designs, bias confounding and proficiency in critically reviewing and evaluating a study 	 Pros Homework assignments, quizzes and papers Successful completion of <i>Study Design</i> Additional depth in experimental designs: Elective on <i>Foundations in Biomedical Applications</i>
 4. Understand the goals of a research probapply appropriate method to predict outcomes and establish causal effects o outcomes using appropriate advanced statistical and machine learning method 5. Ability to develop and succeed in cross- 	 Written exams and projects Homework assignments and labs Successful completion of "Data Science II – Statistical Learning" Additional depth in causal inference: Elective on Causal Inference Additional depth in hierarchical modeling, missing data and clinical trials: Elective on Advanced Topics in Biostatistics Successful prosecution of Capstone Project
disciplinary teams to pursue common projects	
 6. Aware of issues and best practices in the responsible conduct of research and hur subjects research 7. Able to present data and its analysis in a 	 Successful completion of CITI Responsible man Conduct of Research and Biomedical Investigators courses Graded end-of-term oral presentations

public forum, orally and in writing	(multiple courses)
	Interim presentations of Capstone project
	(end of term)
	Final presentation of Capstone project
3: Learning assessment – List the names of the meeting(s) that will be used to conduct learning	
assessment, including key participants	
Meeting title	Key participants (eg, program chair, program dir.,
	course dirs., student reps)
1. End-of-term Education Committee meeting	Program Directors and staff review student
	progress at end of every term
2. Annual Curriculum Committee Meeting	Program Directors and Curriculum Committee
4: Learning assessment process – Confirm that annually the program will (a) discuss the overall	
approach to learning assessment (ie, in terms of learning goals, outcome measures, and review	
process), and (b) submit a report to the Dean of the Graduate School, summarizing the findings of the	
annual assessment review.	
(a) Annual discussion of approach to learning assessment: CONFIRMED / NOT CONFIRMED	
(b) Annual learning assessment report to Dean: CONFIRMED / NOT CONFIRMED	