Neuroscience Theme Training Plan

2017-2018 MSTP Training Plan

	Fall Term*	Spring Term*	Summer Term*
	Required Coursework:	Required Coursework (See MS2 Schedule):	Required Coursework:
GS1	GRD 717: Principles of Sci Integrity (Bioethics)	GBS 710: Cell Signaling (1.8.18 – 2.2.18)	GBS 737: Student Summer Seminars
	MSTP 798: Non-dissertation research	GBSC 729 : Cell Neurophys (2.5.18 – 3.2.18)	
	NBL 703: Neurobiology Seminar Series	GBS 714 : Dev Neuro (3.5.18 – 3.30.18)	MSTP 798: Non-dissertation research
	Biostatistics Course (See Page 2)	GBSC 727 : Neuro Systems (4.2.18 – 4.27.18)	
	· - ·		Elective/Advanced Course(s):
	Elective/Advanced Course(s): A total of 3 advanced	MSTP 798: Non-dissertation research	A total of 3 advanced courses which
	courses which should be decided by mentor and thesis	NBL 703: Neurobiology Seminar Series	should be decided by mentor and
	committee.		thesis committee.
		Elective/Advanced Course(s): A total of 3 advanced courses	
	Journal Club: Choice of JC is discretion of student/mentor	which should be decided by mentor and thesis committee.	Committee formed
	·	,	
	YEA Exam: Oral (Aug)	Journal Club: Choice of JC is discretion of student/mentor	
	. 5,	·	
	Required Coursework:	Required Coursework:	Required Coursework:
GS2	MSTP 798: Non-dissertation research	MSTP 798: Non-dissertation research	GBS 737: Student Summer Seminars
	NBL 703: Neurobiology Seminar Series	NBL 703: Neurobiology Seminar Series	
			MSTP 799: Dissertation research
	Elective/Advanced Course(s): A total of 3 advanced	Elective/Advanced Course(s): A total of 3 advanced courses	
	courses which should be decided by mentor and thesis	which should be decided by mentor and thesis committee.	Elective/Advanced Course(s): A total
	committee.		of 3 advanced courses which should
		Journal Club: Choice of JC is discretion of student/mentor	be decided by mentor and thesis
	Journal Club: Choice of JC is discretion of student/mentor		committee.
		**Qualifying Exam/Admission to Candidacy	
	Required Coursework:	Required Coursework:	Required Coursework:
GS3	MSTP 799: Dissertation research	MSTP 799: Dissertation research	GBS 737: Student Summer Seminars
	NBL 703: Neurobiology Seminar Series	NBL 703: Neurobiology Seminar Series	
			MSTP 799: Dissertation research
	Elective/Advanced Course(s): A total of 3 advanced	Elective/Advanced Course(s): A total of 3 advanced courses	
	courses which should be decided by mentor and thesis	which should be decided by mentor and thesis committee.	Elective/Advanced Course(s): A total
	committee.		of 3 advanced courses which should
		Journal Club: Choice of JC is discretion of student/mentor	be decided by mentor and thesis
	Journal Club: Choice of JC is discretion of student/mentor		committee.
<u> </u>			
GS4	Required Coursework:	Required Coursework:	Required Coursework:
	MSTP 799: Dissertation research	MSTP 799: Dissertation research	GBS 737 : Student Summer Seminars
	NBL 703: Neurobiology Seminar Series	NBL 703: Neurobiology Seminar Series	
			MSTP 799: Dissertation Research
	Elective/Advanced Course(s): A total of 3 advanced	Elective/Advanced Course(s): A total of 3 advanced courses	
	courses which should be decided by mentor and thesis	which should be decided by mentor and thesis committee.	Dissertation Defense**
I	committee.		(public & private)
		Journal Club: Choice of JC is discretion of student/mentor	
	Journal Club: Choice of JC is discretion of student/mentor		Graduation

^{*} Students must register for 9 hours each semester; any hours over must be approved by the MSTP Director.

Must obtain permission of Thesis Mentor, Theme Director, and MSTP Director to register for Career Development courses (e.g., GRD and CIRTL).

Additional theme requirements

- Publications: Two accepted or published papers
- Presentations: At least one (1) presentation at a national or international scientific meeting

Additional MSTP Requirements

- MSTP 794 (1): Translational Research Seminar Series (Fall, Spring, Summer)
- MSTP 795 (1): Continuing Clinical Education (Fall, Summer)
- MSTP 798 (1-8): Non Dissertation Hours
- MSTP 799 (1-8): Dissertation Hours (must be Admitted to Candidacy)
- Submission of F30/F31 on or before April of GS2 Year
- Committee Meetings every 6 months

^{**}Students must be admitted to candidacy for a minimum of 1 year before thesis defense.

2017-2018 MSTP Training Plan

Biostatistics Courses available for MSTP Students:

GBSC 731: Introductory Biostatistics for Graduate Biomedical Sciences. - This course has been specifically designed for the GBS students. Fall.

Note: often BST 611 and 612 are taken together.

BST 611. Intermediate Statistical Analysis I. - Students will gain a thorough understanding of basic analysis methods, elementary concepts, statistical models and applications of probability, commonly used sampling distributions, parametric and non-parametric one and two sample tests, confidence intervals, applications of analysis of two-way contingency table data, simple linear regression, and simple analysis of variance. Students are taught to conduct the relevant analysis using current software such as the Statistical Analysis System (SAS). 3 hours. Fall.

BST 612. Intermediate Statistical Analysis II. - This course will introduce students to the basic principle of tools of simple and multiple regression. A major goal is to establish a firm foundation in the discipline upon which the applications of statistical and epidemiologic inference will be built. Prerequisite: BST 611 or Permission of Instructor. 3 hours. Spring.

Note: often BST 621 and 622 are taken together.

BST 621 - Statistical Methods I. - Mathematically rigorous coverage of applications of statistical techniques designed for biostatistics majors and others with sufficient mathematical background. Statistical models and applications of probability; commonly used sampling distributions; parametric and nonparametric one and two sample tests and confidence intervals; analysis of contingency tables; simple linear regression and analysis of variance. Prerequisites: A year of calculus and linear algebra. 3 hours. Fall.

BST 622 - Statistical Methods II. - Continuation of concepts in BST 621, extended to multiple linear regression; analysis of variance, analysis of covariance, multiple analysis of variance; use of contrasts and multiple comparisons procedures; simple and multiple logistic regression, and an introduction to survival analysis. Prerequisites: BST 621. 3 hours. Spring.