## **Immunology Theme Training Plan**

# 2017-2018 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 740A: Intro to Immunology I (1.8.18 – 2.2.18)	MSTP 798: Non-dissertation research
	MSTP 798: Non-dissertation Research	GBS 740B: Intro to Immunology II (2.5.18 – 3.2.18)	
	Biostatistics Course (See Page 2)	GBS 744: Mucosal Immunology (3.5.18 – 3.30.18)	Journal Club
	Journal Club	GBS 774: Lymphocyte Biology (4.2.18 – 4.27.18)	
			Elective/Advanced Course(s):
	Elective/Advanced Course(s): A total of 3	GRD 701: Presentation & Discussion Skills	A total of 3 advanced courses which
	advanced courses, which should be decided by	MSTP 798: Non-dissertation Research	should be decided by mentor and
	mentor and thesis committee.		thesis committee.
		Journal Club	
	Seminar: Recommended. Attend Immunology		Seminar: Recommended. Attend
	Seminar or other, but do not register	Elective/Advanced Course(s): A total of 3 advanced courses, which	Immunology Seminar or other, but do
		should be decided by mentor and thesis committee.	not register
		Seminar: Recommended. Attend Immunology Seminar or other, but do not register	
		Dissertation Committee Formed- By end of semester	
GS2	Required Coursework:	Required Coursework:	Required Coursework:
	GBSC 722: Dev of Comm. Skills for Bio Research	GBSC 722: Dev of Comm. Skills for Bio Research	MSTP 799: Dissertation research
	MSTP 798: Non-dissertation research	MSTP 798: Non-dissertation research	
	Laurent Club	tarrest 61 h	Journal Club
	Journal Club	Journal Club	Coming December and Attend
	Elective/Advanced Course(s): A total of 3 advanced	Elective/Advanced Course(s): A total of 3 advanced courses which	Seminar: Recommended. Attend Immunology Seminar or other, but do
	courses which should be decided by mentor and	should be decided by mentor and thesis committee.	not register
	thesis committee.	should be decided by mentor and thesis committee.	not register
		Seminar: Recommended. Attend Immunology Seminar or other, but	
	Seminar: Recommended. Attend Immunology	do not register	
	Seminar or other, but do not register		
	Cubusit Assessed December Descent	**Qualifying Exam/Admission to Candidacy by April 7 <sup>th</sup> Written due to committee by Feb 1 <sup>st</sup> . Revisions due back to the	
	Submit Annual Progress Report		
	Committee Meeting (October/November)	committee by Mar 21st. Anticipated Date of QE/Candidacy- April 7th  Committee Meeting (April/May)	
	Particular and the		Bara in differential de
GS3	Required Coursework:  GBSC 722: Dev of Comm. Skills for Bio Research	Required Coursework:  GBSC 722: Dev of Comm. Skills for Bio Research	Required Coursework:
	MSTP 799: Dissertation research	MSTP 799: Dissertation research	MSTP 799: Dissertation research
	WSTP 799: Dissertation research	WSTP 799: Dissertation research	Seminar: Recommended. Attend
	Journal Club	Journal Club	Immunology Seminar or other, but do
	Journal Club	Journal Clab	not register
	Seminar: Recommended. Attend Immunology	Seminar: Recommended. Attend Immunology Seminar or other, but	
	Seminar or other, but do not register	do not register	
	Submit Annual Progress Report	Committee Meeting (April/May)	
	Committee Meeting (October/November)	, , , , , , , , , , , , , , ,	
	Required Coursework:	Required Coursework:	Required Coursework:
GS4	GBSC 722: Dev of Comm. Skills for Bio Research	GBSC 722: Dev of Comm. Skills for Bio Research	MSTP 799: Dissertation Research
	MSTP 799: Dissertation research	MSTP 799: Dissertation research	
			Seminar: Recommended. Attend
	Journal Club	Journal Club	Immunology Seminar or other, but do
			not register
	Seminar: Recommended. Attend Immunology	Seminar: Recommended. Attend Immunology Seminar or other, but	
	Seminar or other, but do not register	do not register	Dissertation Defense**
			(public & private)
	Submit Annual Progress Report	Committee Meeting (April/May)	Graduation
	Committee Meeting (October/November)		

<sup>\*</sup> Students must register for 9 hours each semester; any hours over must be approved by the MSTP Director.

 Permission from MSTP Director, Theme Director, and Thesis Mentor needed 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

<sup>\*\*</sup>Students must be admitted to candidacy for a minimum of 1 year before thesis defense.

### 2017-2018 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.