Example Program of Study Infection and Immunity: From Molecules to Populations (IIMP) training focus in the Translational Biomedical Science PhD Program. The core curriculum provides students with ~34-36 credit hours of didactic training in the first two years. The IIMP pathway-specific core curriculum allows a selection of the best courses available to provide fundamental and deep knowledge so that IIMP students emerge from the training program prepared for a productive academic career at the interface between laboratory and population science.

Fall Year-01	Spring Year-01	Summer Yr-01
• IND 501 (1 credit, 8 weeks)	• IND 417 (1 credit)	
Pm 415 (3 credits) Principles of Epidemiology	Workshop in Scientific Communications Choose 1 Course (3 credits) IND 419 Intro to Quantitative Biology PM 486 Medical Ecology	Summer-in-Residence • Begin Dissertation Research
First 5 weeks, meet with TBS program Co-Directors to Discuss Eligible Research Rotation Lab and Population Science Co- Mentors aligned with research interests Oct 1 - Dec 15, Rotation 1	Jan 2 - March 15, Rotation 2 March 16 - May 31, Rotation 3	July 1-Aug 31, Rotation 4 (optional) PM 403 - Res. Team Science Seminar (1 cr) (optional)
*Choose 1 Lab Science course • IND 408 - Advanced Biochem & Recitation (5 credits) • IND 409 - Cell Biology (4 credits) • MBI 473/573 - Immunology and Immunology Seminar (5 credits)	*Choose 1 Population Science course BST 465 - Design of Clinical Trials (3 credits; (BST 463 is prerequisite) PM 458 - Qualitative Health Care Research (3 credits) PM 487 - Fundamentals of Science, Technology & Health Policy (2 credits) (offered every other year) PM 426 - Social & Behavioral Med (3 credits)	Selection of Laboratory & Population Science Research Co-Mentors • Meeting with program directors to choose laboratory and population science research comentors and finalize dissertation lab assignment. Student and prospective co-mentors meet with TBS Program Directors to discuss the expectations of the Mentors-Protégé pairing, the dual focus dissertation research project, funding strategies and responsibilities of mentors and protégé.
BST 463 - Introduction to Biostatistics (3 credits)	BST 467 - Applied Biostats for Biomedical Science (Spring) (3 credits)	Create Individual Development Plan (IDP) Online Ever Better Mentoring Curriculum for trainees and mentors and IDP oversight. All TBS-IIMP students and their co-mentors are assigned to a
IND 436 - Unifying Population & Laborat IND 595 - PhD Research (enough hours to	ory Based Sciences (1 credit) each semester.	member of the Mentor Development Working Group to craft the student's IDP and set goals, define activities to meet goals and establish benchmarks for
Fall Year-02		
Tall Teal-UZ	Spring Year-U2	Summer 11-02
	Spring Year-02 Science Course	Summer Yr-02
		Intentionally left blank
*Choose 1 Late • MBI 414/514 - Microbial Pathogenesis & Seminar (4 credits) *Choose 1 Population Science course • PM 410 - Intro Data Management and Analysis (SAS) (3 credits) (+ summer) • PM 412 - Survey Research • PM 445 - Introduction to Health Services Research (3 credits)	Science Course MBI 421/521 - Microbial Genetics & Seminar (4 credits)	
*Choose 1 Late • MBI 414/514 - Microbial Pathogenesis & Seminar (4 credits) *Choose 1 Population Science course • PM 410 - Intro Data Management and Analysis (SAS) (3 credits) (+ summer) • PM 412 - Survey Research • PM 445 - Introduction to Health Services Research (3 credits) • PM 420 - American Health Policy and Politics (3 credits) • PM 419 - Recruitment & Retention of Human Subjects in Clin Res (3 credits)	MBI 421/521 - Microbial Genetics & Seminar (4 credits) MBI 456 - General Virology (4 credits) IND 438 (3 credits) Practical Skills in Grant Writing OR equivalent grant writing modules and Workshops from Center for Professional Development Write Qualifying Exam proposal in style of	Intentionally left blank Summer-in-Residence • Dissertation research
*Choose 1 Late • MBI 414/514 - Microbial Pathogenesis & Seminar (4 credits) *Choose 1 Population Science course • PM 410 - Intro Data Management and Analysis (SAS) (3 credits) (+ summer) • PM 412 - Survey Research • PM 445 - Introduction to Health Services Research (3 credits) • PM 420 - American Health Policy and Politics (3 credits) • PM 419 - Recruitment & Retention of	MBI 421/521 - Microbial Genetics & Seminar (4 credits) MBI 456 - General Virology (4 credits) IND 438 (3 credits) Practical Skills in Grant Writing OR equivalent grant writing modules and Workshops from Center for Professional Development Write Qualifying Exam proposal in style of NIH R01 grant or F31 with permission BME 432 - FDA and Intellectual Property Commercialization (2 credits; Optional but	Intentionally left blank Summer-in-Residence Dissertation research Pass Qualifying Exam by Oct 1st of 3rd year Optional, but encouraged - Participation in URBEST and Center for Professional Development
*Choose 1 Late • MBI 414/514 - Microbial Pathogenesis & Seminar (4 credits) *Choose 1 Population Science course • PM 410 - Intro Data Management and Analysis (SAS) (3 credits) (+ summer) • PM 412 - Survey Research • PM 445 - Introduction to Health Services Research (3 credits) • PM 420 - American Health Policy and Politics (3 credits) • PM 419 - Recruitment & Retention of Human Subjects in Clin Res (3 credits) (offered every other year) • PM 488 - Experimental Therapeutics (3 credits) • BME 431 - FDA & Intellectual Property (2 credits)	MBI 421/521 - Microbial Genetics & Seminar (4 credits) MBI 456 - General Virology (4 credits) IND 438 (3 credits) Practical Skills in Grant Writing OR equivalent grant writing modules and Workshops from Center for Professional Development Write Qualifying Exam proposal in style of NIH R01 grant or F31 with permission BME 432 - FDA and Intellectual Property Commercialization (2 credits; Optional but recommended if take BME 431) *With approval from Program Co-Directors and Co-Mentors, courses in population or lab sciences may be substituted to tailor	Summer-in-Residence • Dissertation research • Pass Qualifying Exam by Oct 1 st of 3 rd year • Optional, but encouraged - Participation in URBEST and Center for Professional Development programs.
*Choose 1 Late • MBI 414/514 - Microbial Pathogenesis & Seminar (4 credits) *Choose 1 Population Science course • PM 410 - Intro Data Management and Analysis (SAS) (3 credits) (+ summer) • PM 412 - Survey Research • PM 445 - Introduction to Health Services Research (3 credits) • PM 420 - American Health Policy and Politics (3 credits) • PM 419 - Recruitment & Retention of Human Subjects in Clin Res (3 credits) (offered every other year) • PM 488 - Experimental Therapeutics (3 credits) • BME 431 - FDA & Intellectual Property (2 credits)	MBI 421/521 - Microbial Genetics & Seminar (4 credits) MBI 456 - General Virology (4 credits) IND 438 (3 credits) Practical Skills in Grant Writing OR equivalent grant writing modules and Workshops from Center for Professional Development Write Qualifying Exam proposal in style of NIH R01 grant or F31 with permission BME 432 - FDA and Intellectual Property Commercialization (2 credits; Optional but recommended if take BME 431) *With approval from Program Co-Directors and Co-Mentors, courses in population or lab sciences may be substituted to tailor didactic training for each student.	Summer-in-Residence • Dissertation research • Pass Qualifying Exam by Oct 1 st of 3 rd year • Optional, but encouraged - Participation in URBEST and Center for Professional Development programs. Summer Yr-03 Immersive Cross-disciplinary Internship or Externship
*Choose 1 Late • MBI 414/514 - Microbial Pathogenesis & Seminar (4 credits) *Choose 1 Population Science course • PM 410 - Intro Data Management and Analysis (SAS) (3 credits) (+ summer) • PM 412 - Survey Research • PM 445 - Introduction to Health Services Research (3 credits) • PM 420 - American Health Policy and Politics (3 credits) • PM 419 - Recruitment & Retention of Human Subjects in Clin Res (3 credits) (offered every other year) • PM 488 - Experimental Therapeutics (3 credits) • BME 431 - FDA & Intellectual Property (2 credits) • IND 436 - Unifying Population & Laborate • PM 451 - (3 credits)	MBI 421/521 - Microbial Genetics & Seminar (4 credits) MBI 456 - General Virology (4 credits) IND 438 (3 credits) Practical Skills in Grant Writing OR equivalent grant writing modules and Workshops from Center for Professional Development Write Qualifying Exam proposal in style of NIH R01 grant or F31 with permission BME 432 - FDA and Intellectual Property Commercialization (2 credits; Optional but recommended if take BME 431) *With approval from Program Co-Directors and Co-Mentors, courses in population or lab sciences may be substituted to tailor didactic training for each student. cory Based Sciences (1 credit) each semester. Educational and mentoring experience gained through one required Teaching Assistantship in 2 nd or 3 rd year	Summer-in-Residence • Dissertation research • Pass Qualifying Exam by Oct 1 st of 3 rd year • Optional, but encouraged - Participation in URBEST and Center for Professional Development programs.