Example Program of Study for T0-T4 training focus in the Translational Biomedical Science PhD program. The core curriculum will provide the students with ~34-36 credit hours of didactic training in the first two years.

Fall Year-01

- **IND 501 (1 credit, 8 weeks) -** Ethics and Professional Integrity in Research

Choose 1

- **IND 426 (2 credits)** - Science Communication for Diverse Audiences

- **PM 415 (3 credits) -** Principles of Epidemiology

- First 5 weeks meet with eligible research rotation mentors
- Oct 1 - Dec 15, **Rotation 1**

***Choose 1 of 6 courses**

- **IND 408** - Advanced Biochem & Recitation (5 credits)
- **IND 409** - Cell Biology (4 credits)
- **MBI 473/573** - Immunology and Immunology Seminar (5 credits)
- **PM 410** - Intro Data Management and Analysis (SAS) (3 credits)
- **PM 488 -** Experimental Therapeutics (3 credits)
- **PM 419** - Recruitment & Retention of Human Subjects in Clinical Res (3 credits)

Choose 1

- **BST 463 - Introduction to Biostatistics** (Fall) (3 credits)

- **IND 436 - Unifying Population and Laboratory Based Sciences** (1 credit) each semester
- **IND 595 - PhD Research** (enough hours to total 16 credits per semester)

Spring Year-01

Choose 1

- **IND 417 (1 credit)** - Workshop in Scientific Communications

Choose 1 of 2 courses (3 credits)

- **IND 419 -** Intro to Quantitative Biology
- **PM 486** – Medical Ecology

- Jan 2 - March 15, **Rotation 2**
- March 16 - May 31, **Rotation 3**

***Choose 1 of 6 courses**

- **BST 465** - Design of Clinical Trials (3 credits)
- **PM 458** - Qualitative Health Care Research (3 credits)
- **PM 487** - Fundamentals of Science, Technology & Health Policy (3 credits)
- **PM 426** - Social & Behavioral Medicine (3 credits)
- **IND 410** - Molecular Biology and Genetics (4 credits)
- **IND 443** - Eukaryotic Gene Regulations & Recitation (4 credits)

Choose 1

- **BST 467 - Applied Biostats for Biomedical Science** (Spring) (3 credits)

Summer Yr-01

Summer-in-Residence

- Begin Dissertation Research

- **PM 403 (optional)** - Research Team Science Seminar (1 credit)

- July 1-Aug 31, **Rotation 4** (optional)

Selection of Basic Research & Translational Co-Mentors

- **Meeting with program directors to choose research and translational mentoring co-advisors and finalize dissertation lab assignment.** Student and prospective mentors meet with TBS Program Directors to discuss the expectations of the Mentor-Protégé pairing, the dissertation research project, funding strategies and responsibilities of mentors and protégé.

Create Individual Development Plan (IDP)

- **Online Ever Better Mentoring Curriculum** for trainees and mentors **and IDP oversight.** All TBS students and their co-mentors are assigned to a 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 success.

Fall Year-02

- **IND 492 -** Mentoring experience gained through one required Teaching Experience in 2nd or 3rd year (1 credit)

Choose 2-4 Elective courses (8-11 credit hours) in science and translational discipline of PhD dissertation research to total didactic course work of ~34-36 credit hours.

- **IND 436 - Unifying Population & Laboratory Based Sciences** (1 credit) each semester
- **IND 595 - PhD Research** (enough hours to total 16 credits per semester)

***With approval from TBS Program Directors, courses may be substituted to tailor didactic training for each student to obtain in depth training in scientific and translational discipline of dissertation research.**

Spring Year-02

***Choose 1 of 4 courses**

- **PM 438** – Grantsmanship (3 credits)
- **BCS 582** — Grant Writing in Brain and Cognitive Sciences (3 credits)
- **BME** — Writing Proposals in Biomedical Engineering (2 credits)
- **BPH 567** — Writing Proposals in Biophysics (1 credit)

Write Qualifying Exam proposal in style of NIH F30 or F31

Summer Yr-02

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 programs.

Summer Yr-03

Immersive Cross-disciplinary Internship or Externship aligned with research project **(8 weeks, optional but strongly encouraged—through URBEST program).**

Choose from several	Required TBS Core Curriculum	*Flexibility in didactic courses