

## Ph.D. in Clinical Translational Sciences

### Sample Curriculum for Post-Baccalaureate Students:

#### Required Courses \*

- Advanced Molecular and Cellular Biology (CTS 555) or other principles course – 3 to 6 units
- Professional Development Series (minimum 4 units)
  - Responsible Conduct of Research (CTS 595C) – 1 unit
  - Individualized Scientific Writing (CTS 585) – 2 units
  - Scientific Writing, Presentation and Bioethics (PS 595b) – 2 units
  - Scientific Grantsmanship (IMB 521) – 2 units
  - Or similar courses in other departments.
- Biostatistics in Public Health (BIOS 576A) – 3 units.
- Medical Sciences Seminar (CTS 696A) or Biomedical Sciences Seminar (CTS 696B) or Departmental Seminar – 1 unit/semester, minimum 2 semesters. Credit for attending relevant departmental seminars can be obtained in any specialty participating in the CTS Program with prior approval from the CTS Director of Graduate Affairs. A minimum of 2 units of credit derived from seminar programs is required. The dissertation defense can be presented in one of these seminar series with permission of the seminar coordinators.
- Biomedical Sciences Journal Colloquium (CTS 595) and/or Clinical Case Conferences – 1 unit/semester, 6 semesters: total 6 units
- Dissertation Research (CTS 920) – 18 units

\*May substitute other courses with CTS approval with the exception of CTS 920.

#### Elective Options

- Human Systems Neuroscience (CTS 556) – 3 units
- Developmental Neurobiology (NEU 557) – 4 units
- Cell Biology of Disease (CMM 504) – 3 units
- Functional Human Histology (CMM 525A) – 4 units
- Basic Principles of Epidemiology (EPID 573A) – 3 units
- Biomedical Imaging (BME 516) – 3 units
- Fundamentals of Cardiovascular Hematology (MEDP 620) – 6 units
- Neuropharmacology (PHCL 553) – 3 units
- Or any other graduate courses recommended by the faculty mentor.