IDI PhD program coursework requirement and recommended electives courses

The following minimum core graduate courses, or their equivalent, are required of all students in the Graduate Group. These courses should be taken before the Qualifying Examination Committee is appointed, and the student must receive a “B” or higher grade average in these courses, except seminars that may be taken on a S/U basis.

**Group I: Infectious Diseases (2 courses)**

- PH 260A  Principles of Infectious Disease, Part I (4 units); Riley & Swartzberg and one of the following:
- PH 260B  Principles of Infectious Disease, Part II (4 units); Swartzberg
- PH 262  Molecular Basis of Bacterial Pathogenesis (3 units); Portnoy
- PH 265  Molecular Parasitology (3 units); Harris

**Group II: Immunology (1 course)**

- PH 263  Public Health Immunology (3 units) Stanley or:
- MCB 250  Advanced Immunology (4 units); Raulet/Robey/Shastri

**Group III: Epidemiology and Biostatistics (2 courses)**

- PH 145  Statistical Analysis of Continuous-Outcome Data (4 units) or:
- PH 245  Introduction to Multivariate Statistics (4 units)
- PH 253B*  Epidemiology and Control of Infectious Diseases (3 units); Reingold or:
- PH 260E  Molecular Epidemiology (3 units); Riley

*Note: IDI PhD students without an epidemiology background are strongly encouraged to read more about Epidemiology and/or take 250A prior to taking PH 253B

**Group IV: Research (2 courses)**

- PH 293  IDI Monday Doctoral Seminar (1 unit), required every semester & IDI Wed Doctoral Seminar (2 units) for pre-QE students, others are welcome.

In addition to the required courses listed above, students will elect at least a few additional course work appropriate to the student’s area of research interest with the guidance of the Graduate Advisor and other faculty.

Examples for electives:

- PH 250 A  Epidemiologic Methods I (4 units)
- MCB 210  Molecular & Cell Biology (4 units) Rio
- PH 266A  Foodborne Diseases (2 units); Lu
- PH 260F  Infectious Disease Research in Developing countries (3 units); Harris
- PH 266B  Zoonotic Diseases (2 units); Dailey
- PMB 200B  Genomics and Computational Biology (1.5 units) Brenner
- PH 275  Current Topics in Vaccinology (3 units); Riley
- MCB 230  Advanced Cell Biology (4 units); Bilder
- MCB 259J  Immune Evasion by Viruses (2 units); Coscoy