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
  - **PH 266B**  Zoonotic Diseases (2 units) Dailey

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**  Epidemicology 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 coursework appropriate to the student’s area of research interest with the guidance of the Graduate Advisor and other faculty.

Examples for electives:

- **PH 250A**  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