MS in Genome Bioinformatics Program

*Example Timeline and checklist for full-time students matriculating after Summer 2021*

This timeline is an example only and may change if the student is part-time or wants to take specific electives that may conflict with the current course times.

*Updated November 23, 2021*

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### Year 1 fall semester

#### Coursework

- ☐ BIOST 2041 Introduction to Statistical Methods 1 3 credits
- ☐ PUBHLT 2022 The Dean’s Public Health Grand Rounds 0 credits
- ☐ HUGEN 2010 Bioinformatic Resources for Geneticists 1 credit
- ☐ HUGEN 2022 Human Population Genetics 2 credits
- ☐ HUGEN 2025 Human Genetics Seminar 0 credits
- ☐ HUGEN 2040 Molecular Basis of Human Inherited Disease 3 credits
- ☐ HUGEN 2071 Genomic Data Processing & Structures 3 credits
- ☐ PUBHLT 2030 Research Ethics 1 credit
- ☐ course number Special Studies or Elective or Practicum 0-2 credits

#### Research and Professional Development

- ☐ Attend Human Genetics Department Retreat at Pymatuning (Sep, *optional*)
  - Not a program requirement, but highly encouraged
- ☐ Complete the following CITI research training modules available at www.citi.pitt.edu/citi/
  - ☐ Conflicts of Interest
  - ☐ Responsible Conduct of Research
  - ☐ Human Subjects Protections
  - ☐ Privacy & Information Security
- ☐ Begin applying for internship positions (Nov–Dec)
Year 1 spring semester

Coursework

☐ HUGEN 2025  Human Genetics Seminar  0 credits
☐ HUGEN 2072  Genomic Data Pipelines & Tools  3 credits
☐ HUGEN 2073  Genomic Data Visualization & Integration  3 credits
☐ HUGEN 2090  Genetic of Complex Diseases I  2 credits
☐ HUGEN 2091  Genetic of Complex Diseases II  1 credit
☐ PUBHLT 2022  The Dean’s Public Health Grand Rounds  0 credits
☐ course number  Special Studies or Elective or Practicum  0-6 credits

Professional Development

☐ Secure summer internship (Apr)

Year 1 summer semester

Professional Development

☐ Complete Internship (Aug)
Year 2 fall semester

Coursework

☐ HUGEN 2029  Introduction to Gene Mapping  3 credits
☐ HUGEN 2074  Genome Bioinformatics Capstone  6 credits
☐ EPIDEM 2110  Principles of Epidemiology  3 credits
☐ course number  Elective courses and/or Practicum credits  0-3 credits

Research and Professional Development

☐ Begin thesis research as part of Capstone (Sep)
☐ Discuss participation in the Dean’s Day Research Symposium with research mentor (optional)
☐ Take Comprehensive Examination (Oct)

Year 2 spring semester

Coursework

☐ HUGEN 2075  Genome Bioinformatics Thesis  2 credits
☐ PUBHLT 2011  Essentials of Public Health  3 credits
☐ course number  Special Studies or Elective courses  0-10 credits

Research and Professional Development

☐ Apply for graduation (Jan)
☐ Finish thesis research (Feb)
☐ Submit thesis to Thesis Advisory Committee (Mar)
☐ Participate in the Dean’s Day Research Symposium (Mar/Apr, optional)