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 October 28, 2021

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

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>HUGEN 2025</td>
<td>Human Genetics Seminar</td>
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<tr>
<td>HUGEN 2072</td>
<td>Genomic Data Pipelines &amp; Tools</td>
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<tr>
<td>HUGEN 2073</td>
<td>Genomic Data Visualization &amp; Integration</td>
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<td>HUGEN 2090</td>
<td>Genetic of Complex Diseases I</td>
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<td>HUGEN 2091</td>
<td>Genetic of Complex Diseases II</td>
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<td>PUBHLT 2022</td>
<td>The Dean’s Public Health Grand Rounds</td>
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<tr>
<td>course number</td>
<td>Special Studies or Elective or Practicum</td>
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</tbody>
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#### 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 2075 Genome Bioinformatics Internship and 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 2079 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)