PhD in Human Genetics Program

Timeline and checklist 2022
Updated November 1, 2022

Year 1 fall semester

Coursework

☐ BIOST 2041       Introduction to Statistical Methods       3 credits
☐ HUGEN 2020       Population Genetics and Genetic Epidemiology       3 credits
☐ HUGEN 2025       Human Genetics Seminar       0 credits
☐ HUGEN 2040       Molecular Basis of Human Inherited Disease       3 credits
☐ PUBHLT 2022       The Dean's Public Health Grand Rounds       0 credits
☐ HUGEN 2021       Special Studies       6 credits

Research and professional development

☐ Interview potential mentors and begin first research rotation project
☐ Complete Academic Integrity Training
☐ Complete Laboratory Safety Training (e.g., Chemical Hygiene, Bloodborne pathogens, if applicable)
☐ Complete the following CITI research training modules available at www.citi.pitt.edu/citi/
  ☐ Conflicts of Interest
  ☐ Responsible Conduct of Research
  ☐ Human Subjects Research
  ☐ Animal Research (if applicable)
☐ Interview potential mentors and arrange second research rotation project to start Spring
Year 1 spring semester

Coursework

☐ HUGEN 2010 Bioinformatic Resources for Geneticists 1 credit
☐ HUGEN 2025 Human Genetics Seminar 0 credits
☐ HUGEN 2028 Human Genetics Journal Club and Peer Review 1 credit
☐ HUGEN 2060 Chromosome Structure and Function 2 credits
☐ HUGEN 2090 Genetics of Complex Disease 1 2 credits
☐ HUGEN 2091 Genetics of Complex Disease 2 1 credit
☐ PUBHLT 2011 Essentials of Public Health 3 credits
☐ PUBHLT 2022 The Dean's Public Health Grand Rounds 0 credits
☐ HUGEN 2021 Special Studies 5 credits

Research and professional development

☐ Begin second research rotation project (if applicable)
☐ Choose a permanent research mentor or interview potential mentors for third research rotation project to start Summer
☐ Discuss participation in Dean’s Day Student Research Symposium with rotation mentors

Year 1 summer semester

Coursework

☐ HUGEN 3020 Doctoral Research and Professional Development 1 credit
☐ HUGEN 2021 Special Studies 2 credits

Research and professional development

☐ Begin Summer research rotation or continue research in permanent lab
☐ Participate in Summer Research in Progress (SRIP) seminar series
Year 2 fall semester

Coursework

☐ HUGEN 2025 Human Genetics Seminar 0 credits
☐ HUGEN 2029 Introduction to Gene Mapping 3 credits
☐ PUBHLT 2030 Research Ethics 1 credit
☐ EPIDEM 2110 Principles of Epidemiology 3 credits
☐ HUGEN 2021 Special Studies 5-8 credits

electives

☐ HUGEN 2071 Genomic Data Processing and Structures 3 credits
☐ course number elective course 0-3 credits

Research and professional development

☐ Continue research in permanent lab
☐ Discuss Fall Student Evaluation Form with Mentor
☐ Invite faculty to serve on Qualifying Examination committee; submit committee to Noel Harrie
☐ Schedule date of Qualifying Examination for Fall or Spring semester
☐ Take Qualifying Exam unless scheduled for Spring or Summer
### Year 2 spring semester

**Coursework**

<table>
<thead>
<tr>
<th>Course Code</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 2028</td>
<td>Human Genetics Journal Club and Peer Review</td>
<td>1</td>
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<td>HUGEN 2021</td>
<td>Special Studies</td>
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<td><strong>electives</strong></td>
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<td><strong>0-3 credits</strong></td>
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<td>HUGEN 2051</td>
<td>Inborn Errors of Development</td>
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<td>HUGEN 2072</td>
<td>Genomic Data Pipelines and Tools</td>
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<tr>
<td>HUGEN 2073</td>
<td>Genomic Data Visualization and Integration</td>
<td>3</td>
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<tr>
<td>HUGEN 2080</td>
<td>Statistical Genetics</td>
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<tr>
<td>HUGEN 2080</td>
<td>elective course</td>
<td>0-3</td>
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**Research and professional development**

- Continue research in permanent lab; begin planning dissertation project with research mentor
- Participate in Dean’s Day Student Research Symposium
- Plan (if applicable; see Fall Year 2 above) and take Qualifying Exam unless schedule for Summer
- Discuss Spring [Student Evaluation Form](#) with Mentor

### Year 2 summer semester

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<tr>
<td>HUGEN 2021</td>
<td>Special Studies</td>
<td>2</td>
</tr>
</tbody>
</table>

**Research and professional development**

- Continue research in permanent lab
- Take Qualifying Exam if not already taken
Year 3 fall semester

Coursework

☐ HUGEN 2011 Scientific Writing in Human Genetics 1 credit
☐ HUGEN 2021 Special Studies 11-14 credits

electives
☐ course number elective course 0-3 credits

Research and professional development

☐ Plan dissertation research with research mentor
☐ Discuss Fall Student Evaluation Form with mentor

Year 3 spring semester and after

Coursework

☐ FTDR 3999 Full-Time Dissertation Study 0 credits

electives
☐ course number elective course 0-3 credits

Research and professional development

☐ Continue dissertation research and participation in
☐ Participate in Dean’s Day Student Research Symposium each Spring
☐ Enroll in Doctoral Research and Professional Development each Summer
☐ Discuss Spring and Fall Student Evaluation Forms with Mentor
☐ Arrange Comprehensive Exam Committee and take Comprehensive Exam
☐ Arrange Dissertation Committee and hold Dissertation Committee meetings annually
☐ Schedule date and defend dissertation