

PhD in Human Genetics Program

Timeline and checklist 2022

Updated November 1, 2022

Year 1 fall semester

Coursework

<input type="checkbox"/>	BIOST 2041	Introduction to Statistical Methods	3 credits
<input type="checkbox"/>	HUGEN 2020	Population Genetics and Genetic Epidemiology	3 credits
<input type="checkbox"/>	HUGEN 2025	Human Genetics Seminar	0 credits
<input type="checkbox"/>	HUGEN 2040	Molecular Basis of Human Inherited Disease	3 credits
<input type="checkbox"/>	PUBHLT 2022	The Dean's Public Health Grand Rounds	0 credits
<input type="checkbox"/>	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

<input type="checkbox"/>	HUGEN 2010	Bioinformatic Resources for Geneticists	1 credit
<input type="checkbox"/>	HUGEN 2025	Human Genetics Seminar	0 credits
<input type="checkbox"/>	HUGEN 2028	Human Genetics Journal Club and Peer Review	1 credit
<input type="checkbox"/>	HUGEN 2060	Chromosome Structure and Function	2 credits
<input type="checkbox"/>	HUGEN 2090	Genetics of Complex Disease 1	2 credits
<input type="checkbox"/>	HUGEN 2091	Genetics of Complex Disease 2	1 credit
<input type="checkbox"/>	PUBHLT 2011	Essentials of Public Health	3 credits
<input type="checkbox"/>	PUBHLT 2022	The Dean's Public Health Grand Rounds	0 credits
<input type="checkbox"/>	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

<input type="checkbox"/>	HUGEN 3020	Doctoral Research and Professional Development	1 credit
<input type="checkbox"/>	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

<input type="checkbox"/>	HUGEN 2025	Human Genetics Seminar	0 credits
<input type="checkbox"/>	HUGEN 2029	Introduction to Gene Mapping	3 credits
<input type="checkbox"/>	PUBHLT 2030	Research Ethics	1 credit
<input type="checkbox"/>	EPIDEM 2110	Principles of Epidemiology	3 credits
<input type="checkbox"/>	HUGEN 2021	Special Studies	5-8 credits

electives

<input type="checkbox"/>	HUGEN 2071	Genomic Data Processing and Structures	3 credits
<input type="checkbox"/>	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

<input type="checkbox"/>	HUGEN 2025	Human Genetics Seminar	0 credits
<input type="checkbox"/>	HUGEN 2028	Human Genetics Journal Club and Peer Review	1 credit
<input type="checkbox"/>	HUGEN 2021	Special Studies	8-14 credits

electives

<input type="checkbox"/>	HUGEN 2051	Inborn Errors of Development	2 credits
<input type="checkbox"/>	HUGEN 2072	Genomic Data Pipelines and Tools	3 credits
<input type="checkbox"/>	HUGEN 2073	Genomic Data Visualization and Integration	3 credits
<input type="checkbox"/>	HUGEN 2080	Statistical Genetics	3 credits
<input type="checkbox"/>	course number	elective course	0-3 credits

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

Coursework

<input type="checkbox"/>	HUGEN 3020	Doctoral Research and Professional Development	1 credit
<input type="checkbox"/>	HUGEN 2021	Special Studies	2 credits

Research and professional development

- Continue research in permanent lab
- Take Qualifying Exam if not already taken

Year 3 fall semester

Coursework

- | | | | |
|--------------------------|---------------|--------------------------------------|---------------|
| <input type="checkbox"/> | HUGEN 2011 | Scientific Writing in Human Genetics | 1 credit |
| <input type="checkbox"/> | HUGEN 2021 | Special Studies | 11-14 credits |
| electives | | | |
| <input type="checkbox"/> | 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

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|--------------------------|---------------|------------------------------|-------------|
| <input type="checkbox"/> | FTDR 3999 | Full-Time Dissertation Study | 0 credits |
| electives | | | |
| <input type="checkbox"/> | 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