

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

Year 1 fall semester

Coursework

<input type="checkbox"/>	BIOST 2041	Introduction to Statistical Methods 1	3 credits
<input type="checkbox"/>	PUBHLT 2022	The Dean's Public Health Grand Rounds	0 credits
<input type="checkbox"/>	HUGEN 2010	Bioinformatic Resources for Geneticists	1 credit
<input type="checkbox"/>	HUGEN 2022	Human Population Genetics	2 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"/>	HUGEN 2071	Genomic Data Processing & Structures	3 credits
<input type="checkbox"/>	PUBHLT 2030	Research Ethics	1 credit
<input type="checkbox"/>	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

<input type="checkbox"/>	HUGEN 2025	Human Genetics Seminar	0 credits
<input type="checkbox"/>	HUGEN 2072	Genomic Data Pipelines & Tools	3 credits
<input type="checkbox"/>	HUGEN 2073	Genomic Data Visualization & Integration	3 credits
<input type="checkbox"/>	HUGEN 2090	Genetic of Complex Diseases I	2 credits
<input type="checkbox"/>	HUGEN 2091	Genetic of Complex Diseases II	1 credit
<input type="checkbox"/>	PUBHLT 2022	The Dean's Public Health Grand Rounds	0 credits
<input type="checkbox"/>	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

<input type="checkbox"/>	HUGEN 2029	Introduction to Gene Mapping	3 credits
<input type="checkbox"/>	HUGEN 2074	Genome Bioinformatics Capstone	6 credits
<input type="checkbox"/>	EPIDEM 2110	Principles of Epidemiology	3 credits
<input type="checkbox"/>	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

<input type="checkbox"/>	HUGEN 2075	Genome Bioinformatics Thesis	2 credits
<input type="checkbox"/>	PUBHLT 2011	Essentials of Public Health	3 credits
<input type="checkbox"/>	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*)