Students in the Master of Science degree in Human Genetics and Genetic Counseling program are required to complete a total of 70.5 units over the course of 21 months (five semesters) of study. This includes:

* 38.5 units of didactic courses
* 26 units of clinical fieldwork
* 6 units of research thesis

**Core Courses:** All students must complete the core courses in order to complete the MSGC program.

|  |  |
| --- | --- |
| **1st Year Fall Core Courses** | **Units** |
| ALS 397 Professional Development | 0.0 |
| ALS 434 Clinical Biostatistics | 3.0 |
| GENE 300 Genetic Counseling I | 3.0 |
| GENE 310 Human Molecular Genetics | 3.0 |
| GENE 320 Human Embryology and Prenatal Diagnosis | 3.0 |
| GENE 330 Medical Communication, Counseling Theory & Skills | 3.0 |
| GENE 340 Genetic Disease Mechanisms | 1.5 |
| GENE 345 Principles of Public Health | 1.5 |
| GENE 349 Colloquium/Journal Club/Case Conference | 0.0 |
| **Subtotal** | 18.0 |
| **1st Year Spring Core Courses** | **Units** |
| GENE 350 Genetic Counseling II | 3.0 |
| GENE 360 Human Genomics | 3.0 |
| GENE 370 Clinical Cancer Genomics | 3.0 |
| GENE 380 Medical Genetics | 3.0 |
| GENE 390 Biochemical Genetics | 1.5 |
| ALS 407B Advanced Pharmacogenomics & Precision Medicine | 1.5 |
| ALS 430A Advanced Pharmaceutical Discovery | 1.5 |
| GENE 399 Genetic Counseling Fieldwork Observation | 2.0 |
| GENE 349 Colloquium/Journal Club/Case Conference | 0.0 |
| **Subtotal** | 18.5 |

|  |  |
| --- | --- |
| **Summer Core Courses** | **Units** |
| GENE 495 Genetic Counseling Fieldwork I | 8.0 |
| **Subtotal** | 8.0 |

|  |  |
| --- | --- |
| **2nd Year Fall Core Courses** | **Units** |
| GENE 400 Professional Development I | 1.0 |
| GENE 410 Professional Development I | 1.0 |
| GENE 420 Research Thesis I | 3.0 |
| GENE 496,497 Genetic Counseling Fieldwork II, III | 8.0 |
| GENE 349 Colloquium/Journal Club/Case Conference | 0.0 |
| **Subtotal** | 13.0 |

|  |  |
| --- | --- |
| **2nd Year Spring Core Courses** | **Units** |
| GENE 450 Psychosocial Development II | 1.0 |
| GENE 460 Psychosocial Development II | 1.0 |
| GENE 470 Research Thesis II | 3.0 |
| GENE 498, 499 Genetic Counseling Fieldwork IV, V | 8.0 |
| GENE 349 Colloquium/Journal Club/Case Conference | 0.0 |
| **Subtotal** | 13.0 |