

2026-27 Academic Catalog/Class of 2028 Graduation Requirements

Master of Science in Human Genetics and Genetic Counseling (MSGC)

Students in the Master of Science in Human Genetics and Genetic Counseling program are required to complete a total of 70 credit hours over the course of 21 months (five semesters) of study. This includes:

- 35 units of didactic courses
- 26 units of clinical fieldwork
- 9 units of research/capstone preparation

Program Requirements

1st Year Fall Courses	Credit Hours
MATH 5020 Clinical Biostatistics	3.0
GENE 5000 Genetic Counseling I	3.0
GENE 5020 Human Embryology and Prenatal Diagnosis	3.0
GENE 5030 Research Methodology I	1.5
GENE 5040 Principles of Public Health	1.5
GENE 5090 Case Conference & Journal Club	0.0
GENE 5200 Human Molecular Genetics	3.0
GENE 5240 Genetic Disease Mechanisms	1.5
GENE 5800 Genetic Counseling Fieldwork Observation	1.0
Subtotal	17.5

1st Year Spring Courses	Credit Hours
GENE 5050 Genetic Counseling II	3.0
GENE 5060 Research Methodology II	1.5
GENE 5091 Case Conference & Journal Club	0.0
GENE 5055 Ethics of Genomic Medicine	1.0
GENE 5250 Human Genomics	3.0
GENE 5260 Clinical Cancer Genomics	3.0
GENE 5270 Medical Genetics	3.0
GENE 5280 Biochemical Genetics	1.5
GENE 5290 Pharmacogenomics	1.5
GENE 5801 Genetic Counseling Fieldwork Observation	1.0
Subtotal	18.5



Summer Courses	Credit Hours
GENE 6801 Genetic Counseling Fieldwork I	8.0
Subtotal	8.0

2nd Year Fall Courses	Credit Hours
GENE 6000 Psychosocial Development I	1.0
GENE 6010 Professional Development I	1.0
GENE 6090 Case Conference & Journal Club	0.0
GENE 6094 ABGC Board Review	0.0
GENE 6802 Genetic Counseling Fieldwork II	4.0
GENE 6803 Genetic Counseling Fieldwork III	4.0
GENE 6950 Capstone Project I	3.0
Subtotal	13.0

2nd Year Spring Courses	Credit Hours
GENE 6050 Psychosocial Development II	1.0
GENE 6060 Professional Development II	1.0
GENE 6091 Case Conference & Journal Club	0.0
GENE 6095 ABGC Board Review	0.0
GENE 6804 Genetic Counseling Fieldwork IV	4.0
GENE 6805 Genetic Counseling Fieldwork V	4.0
GENE 6951 Capstone Project II	3.0
Subtotal	13.0