GENOMIC MEDICINE (GNM)

GNM 601. Fundamentals Of Genomic Medicine. 2 Credit Hours.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

GNM 602. Clinical Applications Of Genomic Medicine II. 3 Credit Hours.
The Clinical Applications of Genomic Medicine series provides genomic
medicine case studies and systems-based learning paralleling the
medical school core curriculum. Topics covered in the fall include
cardiology, respiratory system, nephrology, gastroenterology and
nutrition.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

GNM 605. Research Ethics. 1 Credit Hour.
This course introduces foundational concepts in research ethics in
preparation for conducting the genomic medicine practicum. Online
Human Subjects Research and Responsible Conduct of Research training
through the CITI program website will be supplemented with 6 one-hour
in-person discussion sessions.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

GNM 610. Clinical Applications Of Genomic Medicine 1. 3 Credit Hours.
The Clinical Applications of Genomic Medicine series provides genomic
medicine case studies and systems-based learning paralleling the
medical school core curriculum. Initial topics include integration of
genomic medicine into clinical setting, importance of translational
research, benefits for patient and physician, transitioning with the
medical curriculum into case studies and examples on Neuroscience and
Behavior and Cardiovascular disease.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

GNM 630. Clinical Applications Of Genomic Medicine III. 4 Credit Hours.
This course continues the systems-based learning in GNM610 and
GNM602, covering topics in rheumatology, autoimmunity, infectious
disease, hematology, oncology, endocrinology, diabetes and metabolism,
ophthalmology, and dermatology. The class will meet 2 hours each week
for literature-based discussion sessions, and self-directed learning (online
lectures and text-based learning modules) will take approximately 2 hours
per week.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

GNM 631. Genomic Medicine Laboratory. 3 Credit Hours.
Components: LAB.
Grading: CNC.
Typically Offered: Spring.

GNM 640. Pharmacogenomics. 1 Credit Hour.
This course covers pharmacogenomics as a special case of genomic
medicine that will be practiced in every setting. The course provides an
overview of known drug/gene interactions, interpreting test results, and
integrating these results into clinical practice.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

GNM 660. Computational Methods For Genomic Medicine. 3 Credit
Hours.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

GNM 680. Genomic Ethics And Public Policy. 3 Credit Hours.
This course builds on Fundamentals of Genomic Medicine, taking a case-
based approach to discussing ethical, legal, and social issues related to
genomic medicine. Topics include genetic testing, living with a genetic
diagnosis, factors influencing the use of human genetic information,
direct-to-consumer testing, role of society in regulating the use of testing
and genetic information, implications for people with disabilities, role of
the media in public education, legal issues associated with the use of
genetic information.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

GNM 690. MSGM Capstone. 6-12 Credit Hours.
Components: LAB.
Grading: SUS.
Typically Offered: Spring.