GENOMIC MEDICINE (GNM)

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

GMN 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.

GMN 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.

GMN 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: Spring.

GMN 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.

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

GMN 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.

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

GMN 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.

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