GENETIC COUNSELING (GEN)

GEN 600X Experimental Course 1-6
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

GEN 601 Principles of Genetic Counseling 3
Introduction to techniques used in genetic evaluation and counseling. Issues in preconception and prenatal genetic counseling. Skill development including basic interviewing techniques, psychosocial assessment, pedigree construction, searching on-line resources.
Prerequisites: Enrollment in MS genetic counseling program.

GEN 602 Principles of Genetic Counseling II 3
Issues in genetic counseling for pediatric and adult-onset genetic disorders including cancer genetics. Skill development, including working with special populations, decision-making, elements of informed consent.
Prerequisites: Matriculation to second semester of MS genetic counseling program.

GEN 610 Genetic Counseling and the Community 2
Impact of genetic disorders on patients and families, structure and function of support groups, and role of allied health professionals in evaluation, treatment and referral of patients with genetic disorders.
Prerequisites: Enrollment in MS genetic counseling program.

GEN 614 Prenatal Development: Embryology and Teratology 3
Human embryological development with emphasis on normal and abnormal development. Issues in teratology and birth defects, clinical problems associated with birth defects and their means of prevention.
Prerequisites: Enrollment in MS genetic counseling program or permission of instructor.
Notes: Same as BIO 614.

GEN 615 Introduction to Oncology and Genetic Counseling 1
Principles of oncology, cancer genetics, inherited syndromes, assessment, therapies and management in cancer care. Application to genetic counseling with an emphasis on familial and inherited risks.

GEN 618 Psychosocial Seminar 1
Application of psychosocial aspects of genetic and genomic medicine with an emphasis on genetic counseling and the general public. Implementation of peer-supervision for discussion of components of particularly challenging cases.

GEN 625 Introduction to Research Methods and Genetic Counseling Literature 2
Introduction to literature in genetic counseling including dissection of literature for critical assessment and application in clinical and research settings. Review of research methodology for preparation to be both consumers and producers of research.

GEN 630 Medical/Clinical Genetics I 3
Introduction to clinical/medical genetics for genetic counseling students. Topics include clinical cytogenetics and molecular genetics, Mendelian and non-traditional inheritance, dysmorphology, genetics of common cancers.
Prerequisites: Enrollment in MS genetic counseling program, BIO 614, BIO 616.

GEN 646 Advanced Clinical Genomics 2
Advanced principles and topics in genetics, genomics and clinical care in a genetic counseling setting.

GEN 648 Capstone Preparation Seminar 1
Introduction to research methods for genetic counselors. Knowledge and skills basic to critical analysis, interpretation of research findings, and proposal preparation.
Prerequisites: Enrollment in MS genetic counseling program or permission of instructor.

GEN 649 Independent Research Study 1
Guided and individualized mentorship for navigation of capstone project. First course in individual capstone plan.

GEN 658 Molecular Diagnostics 2
Survey of human molecular genetics and current clinical methods used for the diagnosis of human genetic disorders. Special emphasis given to the molecular principles, interpretations, and limitations of these tests.

GEN 668 Introduction to Clinical Encounters 2
Transition to clinical setting with integration of risk assessment. Experiential learning through simulated patient encounters, full case workups, clinical documentation and case management. Emphasis on skills used in patient care.

GEN 698 Summer Clinical Rotations 2
Introduction to clinical genetic counseling. Supervised observational and participatory activities, skill development.
Prerequisites: Matriculation to Summer Session II of MS genetic counseling program.
Notes: Grade: Satisfactory/Unsatisfactory (S/U).

GEN 701 Principles of Genetic Counseling III 3
Issues in professional development, public policy and health care systems. Introduction to legal issues in genetic counseling. Skill development including advanced genetic counseling skills, case management and preparing educational programs.
Prerequisites: Matriculation to third semester of MS genetic counseling program.

GEN 718 Clinical Rotations I 4
Supervised clinical experiences in genetic counseling: case preparation, risk assessment and intervention, psychosocial assessment and support, identification of testing and support resources for patients, skill development.
Prerequisites: Matriculation to second year of MS genetic counseling program.
Notes: Grade: Satisfactory/Unsatisfactory (S/U).

GEN 719 Clinical Rotations II 4
Supervised clinical experiences in genetic counseling: case preparation, risk assessment and intervention, psychosocial assessment and support, identification of testing and support resources for patients, skill development.
Prerequisites: Matriculation to second year of MS genetic counseling program.
Notes: Grade: Satisfactory/Unsatisfactory (S/U).

GEN 720 Peer Supervision in Genetic Counseling 1
Focus on building reflective practice, with heavy emphasis on retrospective case processing and review. Collaborative processing of cases to consider influential components and integrate awareness into future cases.

GEN 730 Medical/Clinical Genetics I 3

GEN 748 Research Project 2
Research project in genetic counseling.
Prerequisites: Matriculation to third semester of the M.S. Genetic Counseling program.
GEN 749 Research Project 3
Research project in genetic counseling. 
Prerequisites: Successful completion of the third semester (GEN 748) of the M.S. Genetic Counseling program. Enrollment in the fourth semester of the M.S. Genetic Counseling program.

GEN 750X Experimental Course 1-6
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

GEN 803 Research Extension 1-3
Research Extension.