**GENETIC COUNSELING (GEN)**

**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.

**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 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 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 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 669 Clinical Skills Seminar 1**
Skill development, eliciting histories, pedigree construction, case preparation and presentation, written documentation of clinical contacts. Introduction to components of clinical and dysmorphology examination and physical measurements. **Prerequisites:** Matriculation to Summer Session I of MS genetic counseling program.

**GEN 671 Risk Assessment in Genetic Counseling 1**
Risk assessment in genetic counseling through qualitative and quantitative methods across subspecialties and disciplines.

**GEN 688 Genetics Journal Club 1**
Students will select or be assigned articles from the genetics literature for presentation/class discussion. Topics will reflect current trends in research, clinical practice, public policy and social issues. **Prerequisites:** Enrollment in MS genetic counseling program or permission of instructor. **Notes:** May be repeated for a maximum of two semester hours credit.

**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 730 Medical/Clinical Genetics I 3**
**GEN 748 Research Project 2**
Research project in genetic counseling. **Prerequisites:** Matriculation to third semester (GEN 748) and fourth semester (GEN 749) of the M.S. Genetic Counseling program and successful completion of PSY 624. **Notes:** Grading method is Satisfactory/Unsatisfactory (S/U).

**GEN 749 Research Project 3**
Research project in genetic counseling. **Prerequisites:** Matriculation to third semester (GEN 748) and fourth semester (GEN 749) of MS genetic counseling program and successful completion of PSY 624. **Notes:** Grade: Satisfactory/Unsatisfactory (S/U).

**GEN 803 Research Extension 1-3**
Research Extension.