

# GENETIC COUNSELING (GENET\_CN)

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Two six-week, full-time summer rotations at clinical genetics centers in the Chicago metropolitan area.

## **GENET\_CN 401-0 Introduction to Genetic Counseling (1 Unit)**

History of genetic counseling and clinical genetics, genetic counseling skills and process, eliciting patient histories, prenatal diagnosis counseling, introduction to diagnostic obstetric ultrasound, teratology, and high-risk obstetrics.

## **GENET\_CN 403-0 Professional Issues in Genetic Counseling (1 Unit)**

This course will examine legal, ethical, ethnocultural and other timely professional issues.

## **GENET\_CN 411-0 Psychosocial Aspects of Genetic Counseling I (1 Unit)**

An introductory course to human psychological development and counseling/interviewing skills as applied to genetic counseling.

## **GENET\_CN 412-0 Psychosocial Aspects of Genetic Counseling II (1 Unit)**

Builds on more theoretical coursework from earlier classes and examines normal and abnormal processes of pregnancy, prenatal diagnosis, birth of a child, and genetic disease for adolescents/adults.

## **GENET\_CN 413-0 Advanced Genetic Counseling (1 Unit)**

Second-year seminar focusing on advanced counseling principles and skills.

## **GENET\_CN 420-1 Principles of Medical Genetics I (1 Unit)**

Basic and complex principles of human heredity, including an introduction to cytogenetics, molecular technique and mathematical genetics.

## **GENET\_CN 420-2 Principles of Medical Genetics II (1 Unit)**

Approaches to clinical genetics, dysmorphology, and a variety of genetic diseases; application of medical and genetic information to genetic counseling of families.

## **GENET\_CN 420-3 Principles of Medical Genetics III (1 Unit)**

Biochemical genetics, immunology, pharmacogenetics, common adult genetic conditions and treatment of genetic disease.

## **GENET\_CN 421-0 Research Methods (1 Unit)**

Planning research projects, questionnaire development, research design, and approaches to clinical research.

## **GENET\_CN 422-0 Genetics Journal Club (0 Unit)**

Regular meetings to review current genetics journals and present articles of interest relevant to clinical genetics.

## **GENET\_CN 425-0 Adult Genetics (1 Unit)**

This class will consider the various adult onset complex disorders, ways to obtain and interpret family history for complex adult conditions, specific genetic risk assessment approaches, and ways to communicate risk to families.

## **GENET\_CN 499-0 Research Project (1 Unit)**

Development and presentation of a research project or case report in consultation with an advisory committee. Students will present a seminar on the project and prepare a paper that is expected to be submitted for publication and for presentation at a professional meeting.

## **GENET\_CN 525-0 Clinical Rotations (1 Unit)**

Rotations through the Genetic Counseling Clinic at local hospitals during the winter and spring quarters of the first year and the fall quarter of the second year.

## **GENET\_CN 530-0 Summer Clinical Rotation (3 Units)**