

UNDERGRADUATE COURSES OF STUDY

GENETICS

GHS 236.NUTRITION AND GENETICS This course focuses on the role of nutrition in the promotion of health and wellness across the lifespan. The course advances knowledge of proteins, carbohydrates, lipids, vitamins, and minerals including their ingestion, digestion, absorption, transportation, and metabolism. Concepts related to gene-diet interactions and the role of these interactions in growth and development and common chronic disease will also be introduced. *Two credit hours.*

GHS 242.PRINCIPLES OF GENETICS FOR GENETIC COUNSELING ASSISTANTS

This course will introduce foundational principles of human genetics and genomics with a focus on the concepts and applications relevant to the practice of clinical genetics. Course requirements include the demonstration of practical clinical skills and comprise constructing pedigrees, identifying modes of inheritance, and considering bioethical principles as they relate to clinical genetics. *Three credit hours.*

GHS 291.TECHNOLOGY IN GENETIC DIAGNOSIS AND GENETIC COUNSELING

This course will allow students to explore molecular, biochemical, and cytogenetic techniques used to inform genetic counseling. Additionally, through this course students will understand the basics of the role of a laboratory genetic counselor, processes to enhance communication with the laboratory personnel, and the distinctive role of the diagnostic laboratory in patient care. *Three credit hours.*

GHS 417.CLINICAL EXPERIENCE FOR GENETIC COUNSELING ASSISTANT

This course provides an in-depth study of genomics and the implications for health care professionals, including ethical, legal, and social implications of genomic technological advances. This course will use virtual experiences to introduce different components of the genetic counseling session, observe different counseling styles, and compare and contrast how different clinical sites operate. *Three credit hours.*

GHS 499.PROFESSIONAL DEVELOPMENT FOR GENETIC COUNSELING ASSISTANTS

This course is designed to help students with professional development, career structuring, and advanced preparation to provide administrative support to genetic counselors. This includes requesting and sending medical records, packaging samples with appropriate consents for transport to genetic laboratories, submitting appropriate information to insurance companies for visit and lab pre-authorizations as needed, completing post-visit tasks including sending referrals, returning patient calls regarding status of testing and any general questions/requests, contacting laboratories regarding testing, and communicating with patients and families regarding normal testing results. *Two credit hours.*