Genetics and genomics both play roles in health and disease. Genetics refers to the study of genes and the way that certain traits or conditions are passed down from one generation to another. Genomics describes the study of all of a person’s genes (the genome).*

The study of both can help health care professionals understand what an individual’s genetic make up means for their health, ultimately delivering more personalized care to the patient.

**Application Open for Fall 2021 Class**

Genetics and genomics both play roles in health and disease. Genetics refers to the study of genes and the way that certain traits or conditions are passed down from one generation to another. Genomics describes the study of all of a person’s genes (the genome).*

The study of both can help health care professionals understand what an individual’s genetic make up means for their health, ultimately delivering more personalized care to the patient.

Genetics is often not emphasized in traditional health care coursework. It’s time to change that! Take your health care career to the next level with our Genetics & Genomics Certification.

https://www.unthsc.edu/school-of-health-professions/genetics-certification
Who Should Apply
Individuals who either currently work in health care or who have a desire to work in health care and have a strong interest in how genetics can be utilized in a health care setting.

What skills will I gain upon completion
- Learn how to utilize family history information to determine patterns of disease within a family
- Assess and interpret genetic test reports to determine how these tests may be used for patient care
- Evaluate testing methodologies to determine which types of testing may be appropriate for a particular suspected genetic condition
- Discuss different current topics in genetics including the ethical, legal, and social controversies and considerations within the field of genetics

About the Program
The program consists of 6 hours of foundational genetics education these courses include genetic and genomic concepts such as:
- Mendelian inheritance
- Polygenic inheritance
- Epigenetic, family history gathering and utilization,
- Laboratory techniques and concepts in genetic testing
- Current legal and ethical case studies.

Students will have an ability to tailor their chosen in class projects to the particular field or fields of study that are most relevant to their chosen healthcare specialty. In addition, students will be able to choose three hours of electives that include advanced topics such as epigenetic in complex diseases, the genetics of aging, mitochondrial genetics, and or pharmacogenetics.

Cost
$5,500 total

How to Apply
Contact admissions at admission@unthsc.edu

Questions
For questions about the program, contact Deanna.Cross@unthsc.edu

Learn more about requirements and the application process online
https://www.unthsc.edu/school-of-health-professions/genetics-certification

*https://www.genome.gov/about-genomics/fact-sheets/Genetics-vs-Genomics#:~:text=Genetics%20and%20genomics%20both%20play%20person's%20genes%20(the%20genome)