



### **Twin Cities Campus**

## **Health and Genomics Minor**

*Genetics, Cell Biology, and Development TCBS*

### **College of Biological Sciences**

- Program Type: Undergraduate free-standing minor
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 16

Genetics and genomics continue to become more integrated into healthcare at all levels. As national initiatives shape healthcare to promote personalized medicine, new standards of care will incorporate, and already are incorporating, genetic counseling and testing. In addition to increasing numbers of specialties utilizing genomic testing, the abundance of genetic testing available via the direct-to-consumer market means all healthcare providers will likely interact with genetic and/or genomic testing over the course of their careers. Genetics in healthcare therefore will impact everyone as it becomes standard of care and especially affect those working in healthcare, research, and public health. The courses in this minor will provide undergraduates interested in healthcare careers with technical knowledge, awareness of ethical and diversity-related issues, along with directed research and/or fieldwork experiences to enrich preparation to incorporation of genomics into their careers.

### **Program Delivery**

This program is available:

- via classroom (the majority of instruction is face-to-face)

### **Admission Requirements**

Students must complete 1 courses before admission to the program.

For information about University of Minnesota admission requirements, visit the [Office of Admissions website](#).

#### **Required prerequisites**

##### **Introductory Biology**

[BIOL 1009](#) - General Biology [BIOL] (4.0 cr)

or [BIOL 1951](#) - Foundations of Biology Lecture I for Biological Sciences Majors [BIOL] (4.0 cr)

or [BIOL 1951H](#) - Foundations of Biology Lecture I for Biological Sciences Majors [BIOL] (4.0 cr)

### **Minor Requirements**

#### **Health and Genomics Core**

[GCD 3035](#) - Culture, Identity & Precision Medicine (2.0 cr)

[GCD 4144W](#) - Human Genetics - Writing Intensive [WI] (4.0 cr)

[GCD 5914](#) - Ethical and Legal Issues in Genetic Counseling (2.0 cr)

#### **Health and Genomics Electives**

Take 4 or more credit(s) from the following:

- [GCD 4593](#) - Genomics Directed Studies - Community Experience (2.0 - 4.0 cr)
- [GCD 4693](#) - Genomics Directed Studies - Literature Review (2.0 - 4.0 cr)
- [GCD 4694](#) - Genomics Directed Research (2.0 - 4.0 cr)