



**PRECISION HEALTH**  
UNIVERSITY OF MICHIGAN

# PRECISION HEALTH GRADUATE CERTIFICATE PROGRAM

The **first program at U-M** to focus on the competencies of precision health, and the **first of its kind among US institutions** to offer more breadth and depth than precision medicine programs, the new Precision Health Graduate Certificate Program is accepting applications for the fall and winter semesters.

Developed by U-M Precision Health's Education & Training Workgroup, the certificate will be administered by the U-M Medical School's Department of Learning Health Sciences (DLHS) and is approved by the Rackham School of Graduate Studies.

As the science and practice of precision health evolves, the need for a workforce experienced in the diversity of this field is critical. This certificate program will ensure researchers and health professionals are equipped with the skills and training to contribute to this emerging field. Students in disciplines related to precision health—such as **medicine, engineering, nursing, pharmacy, public health, genetics, and others**—will gain knowledge in three precision health domains—Discovery, Treatment, and Health—and six competency domains:

- Ethical, Legal, and Social Implications of Precision Health
- Data Science & Predictive Health Analytics
- Biosocial Determinants of Health/Policy/Economics
- Human Genetics in Health & Disease/Molecular Medicine
- Bioinformatics/Computational Genomics
- Consumer Health Informatics and Healthcare Systems Engineering for Precision Health



**MEDICAL SCHOOL**  
UNIVERSITY OF MICHIGAN



**DEPARTMENT OF  
LEARNING HEALTH SCIENCES**

[medicine.umich.edu/dlhs/precision-health-certificate](https://medicine.umich.edu/dlhs/precision-health-certificate)

**STUDENTS WHO PURSUE A CERTIFICATE IN PRECISION HEALTH WILL BE ON THE CUTTING EDGE OF A RAPIDLY DEVELOPING FIELD. THEY WILL BE PLACED AT THE FOREFRONT OF PROMOTING BETTER HEALTH AND ENSURING THAT THE RIGHT TREATMENT IS GIVEN TO THE RIGHT PATIENT AT THE RIGHT TIME."**

**Gretchen A. Piatt**

MPH, PhD, Chair, Precision Health Graduate Certificate Program; Associate Professor and Associate Chair for Educational Programs, DLHS

The program introduces graduate students from across disciplines to new concepts beyond their current field of study, but directly related to precision health, and serves to stimulate innovative thinking among faculty and students. As new courses with a precision health focus are developed, they will be incorporated into the certificate program to reflect the rapid pace of development of the field.

#### The certificate requires:

1. A minimum of 10 graduate credit hours of coursework from at least two of the six different precision health competency domains. An effort should be made to include all three precision health domains (Discovery, Treatment, and Health).
2. Participation in four of the 0.5-credit Precision Health seminar series, for a total of two credit hours.
3. Attendance at the Precision Health Annual Research Symposium.
4. Attendance at other non-credit, community-building activities, such as a welcome picnic and networking events throughout the year.

The Precision Health Graduate Certificate Program is open to PhD, MS, MA, M Eng, and master's or doctoral level health professional students. Many courses in the program may require some prerequisite classes or knowledge and skills.

**APPLICATIONS ARE DUE AUGUST 1 FOR FALL TERM AND DECEMBER 1 FOR WINTER TERM.**

**FOR QUESTIONS:**

**[PHCertificate@umich.edu](mailto:PHCertificate@umich.edu)**

**FOR MORE INFORMATION:**

**[medicine.umich.edu/dlhs/precision-health-certificate](https://medicine.umich.edu/dlhs/precision-health-certificate)**

NOTE: The Precision Health Graduate Certificate Program is only open to U-M students currently enrolled in a graduate degree-granting program.



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