

**Minors and Breadths by Department
(Fall 2021 — Summer 2022)**

MINOR AREAS OF STUDY

The following minor requirements are listed for each public health discipline. For further discussion about how your minor or breadth area can help you meet your career goals, please contact your faculty advisor.

Department of Biostatistics and Data Science

Minor in Biostatistics

A minor in biostatistics consists of at least nine (9) SCH of the following required courses:

- Masters students: **PHM 1690L** *Introduction to Biostatistics in Public Health* & **PH 1700L** *Intermediate Biostatistics* & at least one Biostatistics elective above PH 1700L
- Doctoral students: **PHM 1690L** *Introduction to Biostatistics in Public Health* & **PH 1700L** *Intermediate Biostatistics* & at least two Biostatistics electives above PH 1700L (Note: PHM 1690L *Introduction to Biostatistics in Public Health* is a prerequisite to PH 1700L but may be waived depending on the student's background.)

PH 1820L *Applied Linear Regression* is strongly recommended as an elective for all students.

Department of Epidemiology, Human Genetics and Environmental Sciences

Minor in Epidemiology

The department offers a minor course of study (nine (9) semester credit hours) for MS and doctoral students majoring in other public health disciplines. Courses required for the minor include:

- Masters students: **PHM 2612L** *Epidemiology I* & two Epidemiology electives
- Doctoral students: **PH 2615L** *Epidemiology II*, **PH 2710L** *Epidemiology III* & one Epidemiology elective

Department of Epidemiology, Human Genetics and Environmental Sciences

Minor in Environmental Sciences

EOHS also offers a minor course of study (minimum nine (9) semester credit hours) for MS and doctoral students majoring in other public health disciplines. Courses required for the minor include:

- Masters students: **PHWM 2110L** *Public Health Ecology & the Human Environment* & two EOHS electives (2100-24099) (**PH 2175L** is recommended)
- Doctoral students: **PHD 2135L** *Risk Analysis: Principles and Practice* & [**PHWD 2106L** *Introduction to Doctoral Research Methods in Environmental and Occupational Health Sciences* OR **PHWD 2108L** *Applied Epidemiological Analysis* OR **PHWD 2760L** *Occupational Epidemiology*] & an EOHS elective (2100-2499). PHM courses do not count toward a doctoral minor.

Department of Health Promotion and Behavioral Sciences

Minor in Behavioral Sciences

The department offers a minor course of study (nine (9) semester credit hours) for MS and doctoral students. Students are required to select at least one course from the Theory category and one course from the Methods category:

- Theory Courses: **PHD 1113L** *Advanced Methods for Planning and Implementing Health Promotion Programs (Intervention Mapping)* OR **PHD 1122** *Health Promotion Theories for Individuals and Groups: Part I* OR **PHD 1123L** *Community Health Promotion Theory and Practice* OR **PHD 1227L** *Health Promotion Theories for Individuals and Groups: Part II*
- Methods Courses: **PHD 1118L** *Qualitative Methods* OR **PH 1324L** *Applied Discrete Data Analysis using STATA* OR **PHD 1130L** *Applied Measurement Theory* OR **PHD 1132** *Latent Variable Models*

and Factor Analysis OR PHD 1420L Quantitative Research Design for Behavioral Sciences AND PHD 1421L Quantitative Analysis for Behavioral Sciences, Meta-Analysis, and Evidence-Based Public Health OR PHD 1431 Tools and Methods for Systematic Reviews and Meta-Analysis OR PH 1498L ST: Applied Longitudinal Data Analysis

Department of Management, Policy and Community Health

Minor in Community Health Practice

The department offers a minor course of study (nine (9) semester credit hours) for students majoring in other public health disciplines. Student select three courses from the approved list:

- Masters students: **PHM 3630** *Health Program Planning, Implementation, and Evaluation*; **PH 1112L** *Community Assessment Methods in Public Health*; **PH 3920** *Health Services Delivery and Performance*; **PHM 3922** *Economic and Social Determinants of Health*; **PHM 3620L** *Principles and Practice of Public Health*
- Doctoral students: **PHD 3800L** *Working with Diverse Communities & PHD 3631L* *Community Engagement/ Community-based Participatory Research & PHD 3625L* *Practice-based Methods and Design.*

Minor in Health Economics

The department offers a minor course of study (nine (9) semester credit hours) for students majoring in other public health disciplines. Student select three courses from the approved list: **PHD 3910** *Health Economics*; **PH 3915** *Methods for Economic Evaluation of Health Programs*; **PH 3922** *Economic and Social Determinants of Health*; **PHD 3930** *Econometrics in Public Health*; **PHD 3931** *Advanced Econometrics*; **PHD 3935** *Advanced Health Economics*; **PHD 3998** *Decision Analysis in Public Health and Medicine.*

Minor in Health Policy

The department offers a minor course of study (nine (9) semester credit hours) for students majoring in other public health disciplines. Student select three courses from the approved list: **PHD 3810** *Health Policy in the United States*; **PHD 3812** *Comparative Health Systems*; **PH 3815** *Health Policy Analysis*; **PH 3738L** *Legal Issues in Healthcare*; **PHD 3830** *Ethics and Policy*; **PH 3736L** *U.S. Healthcare Payment Systems and Policy.*

Minor in Health Services Research

The department offers a minor course of study (nine (9) semester credit hours) for students majoring in other public health disciplines. Student select three courses from the approved list: **PH 3920** *Health Services Delivery and Performance*; **PHD 3926L** *Health Survey Research Design*; **PHD 3930** *Econometrics in Public Health*; **PH 3940** *Healthcare Outcomes and Quality Research*; **PHD 3945** *Advanced Health Services Research Methods*; **PHD 3998** *Decision Analysis in Public Health and Medicine.*

Minor in Healthcare Management

The department offers a minor course of study (nine (9) semester credit hours) for students majoring in other public health disciplines. Students complete a Healthcare Management related **PH 9997** *Practicum* course & select three courses from the approved list:

- Masters students: **PHM 3718** *Accounting for Healthcare Management*; **PHM 3744L** *Organizational Behavior and Human Resource Management in Health Services Organizations*; **PHM 3746L** *Evaluation and Improvement of Healthcare Quality*; **PHM 3720L** *Healthcare Finance*; **PH 3747L** *Healthcare Operations Management*; **PH 3735L** *Healthcare Strategic Management*
- Doctoral students: **PHD 3846L** *Quality Management and Improvement in Healthcare*; **PHD 3721L** *Healthcare Finance*; **PHD 3946L** *Strategy, Governance, and Leadership*; **PHD 3743L** *Organizational and Management Theory*

BREADTH AREAS OF STUDY

Doctoral students are required to complete one major area of study and two additional areas of study. The additional focus areas can be one minor area of study and one breadth area of study OR two minor areas of study. DrPH students who matriculated fall 2018 or later are required to complete one (1) minor only, as a breadth is built into the curriculum. The following are some examples of breadth topic areas, however a breadth area is not limited to the following. Specific courses can be changed to meet the individual needs of the student with the approval of the committee members.

Department of Biostatistics and Data Science

Bioinformatics Breadth

Courses required for the bioinformatics breadth includes 9 credit hours selected from:

- **PH 1821** *Advanced Multivariate Analysis for Biostatistics*
- **PH 1980** *Introduction to Genomics and Bioinformatics*
- **PH 1982** *Evolution of DNA and Protein Sequences*
- **PH 1984** *Population Genetics*
- **PH 1985** *Data Mining and Statistical Learning*
- **PH 1986** *Introduction to Statistical Genetics*
- **PH 2782** *Practical Computational Genetics and Bioinformatics*
- **PH 2998 ST:** *Computational Genomics and NGS Data Analysis*

Department of Management, Policy and Community Health

Leadership Breadth

DrPH students are recommended to select a breadth in Leadership. Courses required include 9 credit hours from the following:

- **PH 5200** *Foundations of Leadership*
- **PH 3815** *Health Policy Analysis*
- **PH 3825** *Public Health Law*
- **PH 3830** *Ethics and Policy*
- **PHD 3946** *Strategy, Governance, and Leadership*
- **PHD 3950** *Advanced Leadership Studies in Public Health*
- **PHD 5210** *Selected Readings in Leadership Studies*
- **PH 5220** *Gender and Leadership*

Quantitative Methods Breadth

DrPH students in Community Health Practice are recommended to select a breadth area in Leadership or Methods. Substitutions in either recommended breadth may be made with approval of the student's committee.

- **PH 2710** *Epidemiology III*
- **PHD 2711** *Epidemiology IV*
- **PH 2998** *Applied Epidemiology*
- **PH 1820** *Regression Techniques*
- **PH 1119** *Qualitative Analysis*
- **PHD 3918** *Geographic Information Systems Science*
- **PH 3998** *Demography for Public Health*

Healthcare Information Technology Management (HITM) Breadth

Selection of courses for the HITM breadth could depend on whether the student is pursuing a major or minor within the MPACH department. Students are expected to seek guidance from the HITM coordinator in selection of courses. Courses required include 9 credit hours from the following:

- **PHD 3750** *Policy Issues of Health IT* **or** **HI 6324** *Health Information Technology Policy**
- **PHD 3998** *Health Care Delivery in EHR Enabled Environment* **or** **HI 6328** *Health Care Delivery in EHR Enabled Environment**
- **PHD 3998** *Operations, Technology, and Decision Management*
- **HI 5327** *Standards in Health Informatics**
- **HI 5381** *Methods of Public Health Informatics**

*These courses are offered by UTHealth School of Biomedical Informatics.