MINOR AREAS OF STUDY
MS, DrPH and PhD students must choose a minor in a public health discipline outside of their major. The following minor requirements are listed for each public health discipline. Doctoral students are required to complete one minor area of study and one breadth area of study OR two minor areas of study. 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
The department offers a minor course of study (nine (9) semester credit hours) for MS, DrPH, and PhD students who are majoring in other public health disciplines. Courses required for the minor include:

- Masters students: PHM 1690 Introduction to Biostatistics in Public Health, PH 1700 Intermediate Biostatistics and at least two Biostatistics electives above PH 1700
- Doctoral students: PHM 1690 Introduction to Biostatistics in Public Health, PH 1700 Intermediate Biostatistics and at least three Biostatistics electives above PH 1700

PH 1820 Regression Techniques 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 PhD students majoring in other public health disciplines. Courses required for the minor include:

- Masters students: PHM 2612 Epidemiology I & two Epidemiology electives
- Doctoral students: PH 2615 Epidemiology II, PH 2710 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, DrPH, and PhD students majoring in other public health disciplines. The prerequisite science background for these courses is required to take the minor course of study in EOHS.

- Masters students: PHWM 2100 Foundations of Environmental and Occupational Health Sciences & two EOHS electives (PHM 2130 & PH 2175 are recommended)
- Doctoral students: PHD 2135 Risk Analysis: Principles and Practice & PHWD 2106 Introduction to Doctoral Research Methods in Environmental and Occupational Health Sciences, OR PHWD 2108 Applied Epidemiological Analyses in Environmental and Occupational Health Sciences, OR PHWD 2760 Occupational Epidemiology; & an EOHS elective

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, DrPH, and PhD students majoring in other public health disciplines. The requirements for a minor in Behavioral Sciences include three courses; at least one course from the Theory category and one course from the Methods category are required:

- Theory Courses: PHD 1113 Advanced Methods for Planning and Implementing Health Promotion Programs OR PHD 1122 Health Promotion Theories for Individuals and Groups: Part I OR PHD 1123 Community Health Promotion Theory and Practice OR PHD 1227 Health Promotion Theories for Individuals and Groups: Part II

Department of Management, Policy and Community Health

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

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

Minor in Health Policy
The department offers a minor course of study (nine (9) semester credit hours) for MPH, MS, DrPH, and PhD students majoring in other public health disciplines. Student select three courses for a minor in Health Policy from the approved list: PHD 3810 Health Policy in the United States; PHD 3812 Comparative Healthcare Systems: Policy Challenges and Economic Perspectives; PH 3815 Health Policy Analysis; PHD 3730 Ethics and Policy; PH 3736 U.S. Healthcare Payment Systems and Policy

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

• Masters and DrPH students: PHM 3744 Organizational Behavior and Human Resource Management in Health Services Organizations; PHM 3746 Evaluation and Improvement of Healthcare Quality; PHM 3720 Healthcare Finance; PH 3747 Healthcare Operations Management; PHD 3735 Healthcare Strategic Management
• PhD students: PHD 3746 Quality Management and Improvement in Healthcare; PHD 3721 Healthcare Finance; PHD 3998 Operations, Technology & Decision Management; PHD 3946 Strategy, Governance, and Leadership; PHD 3743 Organizational and Management Theory

Minor in Community Health Practice
The department offers a minor course of study (nine (9) semester credit hours) for MPH, MS, DrPH, and PhD students majoring in other public health disciplines. Student select three courses for a minor in Health Policy from the approved list:

• Masters students: PHM 3630 Health Program Planning, Implementation, and Evaluation; PH 3998 Community Assessment Principles, Methods, and Technologies; PHM 3922 Economic and Social Determinants of Health; PHM 3620 Principles and Practice of Public Health
• Doctoral students: PHD 3998 Working with Diverse Communities OR PHM 3800 Working with Diverse Communities & PHD 3998 Community Engagement and Community-Based Participatory Research & PHD 3998 Practice-Based Methods and Design
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. 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 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 1998 ST: Advanced Multivariate Analysis with Applications to Genomic Science
- 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 highly 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