

## UNTHSC School of Public Health

### MPH – Epidemiology Concentration

The Master of Public Health (MPH) program with a concentration in Epidemiology (48 credit hours) is designed to prepare students to be effective public health practitioners by ensuring a broad array of competencies utilized in the contemporary practice of epidemiology. By the end of the program, students will establish a strong foundation in the fundamental competencies of public health and epidemiology with specific emphasis on research methods and design, statistical analysis, epidemiological investigation, data-driven program and policy development, as well as the practical application of epidemiologic methods in resolving real-world public health issues. Graduates of the program will find career opportunities as epidemiologists in city, state, national, and international health departments and agencies as well as hospitals and medical centers working on such areas as infection control, outbreak investigation, disease surveillance, and disaster preparedness.

Students in the MPH Epidemiology concentration are admitted once a year as a cohort. Full-time attendance is required and students are expected to graduate in five consecutive semesters. Students follow a weekly calendar of curricular and co-curricular activity that occupies 8-hour blocks of time, Monday through Friday.

#### MPH – Epidemiology Curriculum (cohort program completed in 5 consecutive semesters)

| Courses   | Credit Hours | Total Hours |
|---|--------------|-------------|
| <b>Fall Semester</b>  |              |             |
| BIOS 5300: Principles of Biostatistics  | 3            | 3           |
| EPID 5300: Principles of Epidemiology   | 3            | 6           |
| EPID 5313: Introduction to Data Management and Statistical Computing          | 3            | 9           |
| EOHS 5300: Environmental Determinants of Health 1                             | 3            | 12          |
| <b>Spring Semester</b>  |              |             |
| BACH 5300: Theoretical Foundations of Individual and Community Health         | 3            | 15          |
| BIOS 5310: Intermediate Biostatistics   | 3            | 18          |
| EPID 5310: Intermediate Epidemiology  | 3            | 21          |
| HMAP 5300: Introduction to Health Management and Policy                       | 3            | 24          |
| <b>Summer Semester</b>  |              |             |
| EPID 6318: Epidemiologic Surveillance   | 3            | 27          |
| EPID 5297: MPH Practice Experience  | 1            | 28          |
| <b>Fall Semester</b>  |              |             |
| EPID 5314 Applied Data Analysis in Epidemiology                               | 3            | 31          |
| EOHS 5318: Diseases from Animals to Humans                                    | 3            | 34          |
| EOHS 5310: Evaluation and Control of Environmental Pathogens                  | 3            | 37          |
| EPID 5297: MPH Practice Experience  | 1            | 38          |
| PHED 5000: CPH Comprehensive Examination (exam on MPH core)                   | 0            | 38          |
| <b>Spring Semester</b>  |              |             |
| EPID 5312: Survey Research & Questionnaire Design                             | 3            | 41          |
| EPID 5318: Chronic Disease Epidemiology <u>or</u> EPID 5391: Epi of Disasters | 3            | 44          |
| EOHS 5350: Medical Toxicology: The Science of Poisons                         | 3            | 47          |
| EPID 5297: MPH Practice Experience  | 1            | 48          |