

## UNTHSC School of Public Health

### MS in Public Health Sciences – Epidemiology concentration

The Master of Science (MS) concentration in Epidemiology (36 credit hours) is designed for students who wish to pursue research careers in public health or other health related fields. By the end of the program, students will have a foundational understanding of epidemiologic methods, causal theories and causal inference, applications of biostatistics, the design and conduct of epidemiologic studies, and the ability to communicate scientific information to lay and professional audiences. As the culminating experience of the program, students will write a discovery-based paper that meets current standards for publication in refereed journals. Graduates of the program will be prepared to apply to doctoral degree programs in epidemiology or to pursue research staff positions in health and medical centers, public health departments, governmental agencies, and the private sector.

Students in the MS degree program in Public Health Sciences are admitted in Fall Semesters as a cohort. Full-time enrollment 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.

#### MS – Epidemiology Concentration (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           |
| <b>Spring Semester</b>   |              |             |
| BIOS 5310: Intermediate Biostatistics                                | 3            | 12          |
| EPID 5310: Intermediate Epidemiology                                 | 3            | 15          |
| PHED 5330: Foundations of Public Health                              | 3            | 18          |
| <b>Summer Semester</b>   |              |             |
| Thesis Proposal Development  | 0            | 18          |
| <b>Fall Semester</b>   |              |             |
| BIOS 6314: Categorical Data Analysis                                 | 3            | 21          |
| EPID 5314 Applied Data Analysis in Epidemiology                      | 3            | 24          |
| PHED 5340: Scientific Writing 1                                      | 3            | 27          |
| <b>Spring Semester</b>   |              |             |
| EPID 5312: Survey Research & Questionnaire Design                    | 3            | 30          |
| EPID 6391: Advanced Topics in Epidemiology – Advanced SAS/R          | 3            | 33          |
| PHED 5350: Scientific Writing 2                                      | 3            | 36          |