

# Public Health Sciences Courses

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## Courses

### **PUBH 5302. Epidemiology for Pub Hlth Prof.**

Epidemiology for Public Health Professionals. Core course considers the meaning, scope, and applications of epidemiology to the practice of public health and the uses of statistics for the scientific appraisal and dissemination of public health data. Prerequisite: One prior UG or GR statistics course with grade of "B" or better.

**Department:** Public Health

**3 Credit Hours**

**3 Total Contact Hours**

1 Lab Hour

2 Lecture Hours

0 Other Hours

### **PUBH 5304. Environmental Health.**

Environmental Health. This core course examines how current environmental factors seriously impact human health. The course combines public health and systems thinking perspectives to understand the associations among environmental risk factors, human health and environmental health disparities. Students will use new knowledge to consider risk assessment and management, and how to influence decision making and policy development. Students will be required to apply systems knowledge under a global perspective and to design interventions for mitigating common regional and global communities environmental risk factors.

**Department:** Public Health

**3 Credit Hours**

**3 Total Contact Hours**

0 Lab Hours

3 Lecture Hours

0 Other Hours

**Prerequisite(s):** (HSCI 3306 w/C or better)

### **PUBH 5305. Biostatistics in Public Health.**

PUBH 5305: Biostatistics in Public Health. Core course focuses on the analysis, interpretation, and presentation of public health data. Overview of measurement methods, descriptive statistics, confidence intervals and hypothesis testing, sample size and power calculations, analysis of variance and multiple comparisons; correlation and regression; multiple regression and statistical control of confounding; logistic regression; and survival analysis. Prerequisite: one prior UG or GR statistics course with grade of B or better.

**Department:** Public Health

**3 Credit Hours**

**3 Total Contact Hours**

1 Lab Hour

2 Lecture Hours

0 Other Hours

**Prerequisite(s):** (STAT 1380 w/B or better ) OR (STAT 2182 w/B or better ) OR (STAT 2380 w/B or better ) OR (STAT 2381 w/B or better ) OR (STAT 3330 w/B or better ) OR (STAT 3381 w/B or better ) OR (STAT 4380 w/B or better ) OR (STAT 5195 w/B or better ) OR (STAT 5328 w/B or better ) OR (STAT 5336 w/B or better ) OR (STAT 5354 w/B or better ) OR (STAT 5370 w/B or better ) OR (STAT 5380 w/B or better ) OR (STAT 5381 w/B or better ) OR (STAT 5385 w/B or better ) OR (STAT 5386 w/B or better ) OR (STAT 5388 w/B or better ) OR (STAT 5390 w/B or better ) OR (STAT 5391 w/B or better ) OR (STAT 5392 w/B or better ) OR (STAT 2480 w/B or better)

### **PUBH 5307. Health Services Admin & Policy.**

PUBH 5307: Health Services Administration and Policy. Core course examines organizational skills and basic principles, theories, and practices of administering public health programs in voluntary and governmental agencies. Also focuses on leadership, motivation, small group processes, problem solving, conflict resolution, inter-organizational relationships, and organizational change.

**Department:** Public Health

**3 Credit Hours**

**3 Total Contact Hours**

0 Lab Hours

3 Lecture Hours

0 Other Hours

**PUBH 5321. Resp to Chron, Infect Diseases.**

PUBH 5321: Responding to Chronic and Infectious Diseases in Hispanic and Border Communities. Introduction to basic principles of chronic and infectious disease prevention and control. Emphasis on diabetes, hypertension, cardiovascular disease, asthma, cancer, HIV/AIDS, and TB. Critical analysis of the magnitude, distribution, risk factors, and public health significance of selected chronic and infectious diseases in community and institutional settings.

**Department:** Public Health

**3 Credit Hours**

**3 Total Contact Hours**

0 Lab Hours

3 Lecture Hours

0 Other Hours

**PUBH 5322. Eliminating Health Disparities.**

PUBH 5322: Eliminating Health Disparities. Examination of theoretical models, causes, consequences, and solutions related to health care disparities in Hispanic and other minority communities. Students engage in community service learning project to gain deeper understanding of the sociocultural, economic, geographic, environmental, nutritional, political, and individual factors that contribute to community health disparities.

**Department:** Public Health

**3 Credit Hours**

**3 Total Contact Hours**

0 Lab Hours

3 Lecture Hours

0 Other Hours

**PUBH 5352. Public Health Eval & Research.**

PUBH 5352: Public Health Evaluation and Research Examination of the issues, problems, and techniques involved in the evaluation of public health programs and public health research.

**Department:** Public Health

**3 Credit Hours**

**3 Total Contact Hours**

0 Lab Hours

3 Lecture Hours

0 Other Hours

**PUBH 5353. Social and Behavioral Approach.**

PUBH 5353: Social and Behavioral Approaches in Public Health. Core course examines the cultural, social, economic, psychological, and behavioral factors that influence health and illness. Critical evaluation of social and behavioral science principles, theories, techniques, and research used for understanding and resolving public health problems. Emphasis on Hispanic, border, and other diverse multicultural communities.

**Department:** Public Health

**3 Credit Hours**

**3 Total Contact Hours**

0 Lab Hours

3 Lecture Hours

0 Other Hours

**PUBH 5357. Selected Topics-Public Health.**

PUBH 5357: Selected Topics in Public Health. Course content varies. Topics focus on current issues and challenges related to public health. May be repeated, maximum of nine hours.

**Department:** Public Health

**3 Credit Hours**

**3 Total Contact Hours**

0 Lab Hours

3 Lecture Hours

0 Other Hours

**PUBH 5358. Independent Study.**

PUBH 5358: Independent Study Investigation and analysis of public health issues and challenges. Field assignments may be required. May be repeated, maximum nine hours. Prerequisite: Departmental approval.

**Department:** Public Health

**3 Credit Hours**

**3 Total Contact Hours**

0 Lab Hours

3 Lecture Hours

0 Other Hours

**PUBH 5395. Graduate Project I.**

Graduate Project I Individual research or development of a project/proposal on public health topic under the direct supervision of a graduate faculty member. Initial work on the graduate project.

**Department:** Public Health

**3 Credit Hours**

**3 Total Contact Hours**

Lab Hours

Lecture Hours

3 Other Hours

**Major Restrictions:**

Restricted to majors of MPH

**PUBH 5396. Graduate Project II.**

Graduate Project II Continuous enrollment required while work on the graduate project continues. Satisfactory completion of the course includes a written report and oral presentation.

**Department:** Public Health

**3 Credit Hours**

**3 Total Contact Hours**

0 Lab Hours

0 Lecture Hours

3 Other Hours

**Major Restrictions:**

Restricted to majors of MPH

**Prerequisite(s):** (PUBH 5395 w/P or better)

**PUBH 5397. Graduate Research Project.**

PUBH 5397: Graduate Research Project Individual research or development of a project/proposal on a public health topic under the direct supervision of a graduate faculty member. Requires satisfactory completion of the course, including a written report and oral presentation. Prerequisite: Departmental Approval

**Department:** Public Health

**3 Credit Hours**

**3 Total Contact Hours**

0 Lab Hours

0 Lecture Hours

3 Other Hours

**PUBH 5398. Thesis I.**

PUBH 5398: Thesis I. Initial work on the thesis. Prerequisite: Departmental approval.

**Department:** Public Health

**3 Credit Hours**

**3 Total Contact Hours**

0 Lab Hours

0 Lecture Hours

3 Other Hours

**PUBH 5399. Thesis II.**

PUBH 5399: Thesis II. Continuous enrollment required while work on the thesis continues. Prerequisites: PUBH 5398 and Departmental approval.

**Department:** Public Health

**3 Credit Hours**

**3 Total Contact Hours**

0 Lab Hours

0 Lecture Hours

3 Other Hours

**Prerequisite(s):** (PUBH 5398)

**PUBH 5662. Practicum in Public Health.**

PUBH 5662: Practicum in Public Health. Field internship in public health agency or work site setting under supervision of preceptor and university graduate faculty. Requires a significant project proposal approved by instructor and a final written report. Prerequisite: Departmental approval.

**Department:** Public Health

**6 Credit Hours**

**6 Total Contact Hours**

0 Lab Hours

0 Lecture Hours

6 Other Hours

**Prerequisite(s):** (PUBH 5302 w/B or better ) AND (PUBH 5304 w/B or better ) AND (PUBH 5305 w/B or better ) AND (PUBH 5307 w/B or better ) AND (PUBH 5321 w/B or better ) AND (PUBH 5322 w/B or better ) AND (PUBH 5353 w/B or better ) AND (PUBH 5352 w/B or better ) AND (PUBH 5332 w/B or better)