

PHLT - PUBLIC HEALTH (PHLT)

PHLT 270 Broad Street Learning Community I

Credits 3. 3 Lecture Hours.

Introduction to the program, development of critical thinking skills and international perspectives; introductory for the Public Health Studies Broad Street Honors Learning Community.

Prerequisites: Admission to Broad Street Society Honors Learning Community; public health major.

PHLT 289 Special Topics In...

Credits 1 to 4. 1 to 4 Lecture Hours. 0 to 4 Lab Hours.

Selected topics in an identified area of public health. May be taken three times for credit.

Prerequisite: PHLT major or approval of instructor.

PHLT 301 Public Health Concepts

Credit 1. 1 Lecture Hour.

Familiarization with public health including aspects such as different disciplines within the profession; local, national and international agencies that have interest in public health and public health code of ethics.

PHLT 302 Foundations of Public Health

Credits 3. 3 Lecture Hours.

History, philosophy, development and careers of public health; core values, ethics, concepts, functions and essential services of public health; population health and health improvement.

Prerequisites: Public health major or minor, junior or senior classification, or approval of instructor.

PHLT 303 Social Context of Population Health

Credits 3. 3 Lecture Hours.

Exploration of social determinants of population health and the socio-cultural roots of health improvement; socio-economic, behavioral and other factors that impact human health and contribute to health improvement and health disparities.

Prerequisites: Public health major or minor, junior or senior classification, or approval of instructor.

PHLT 304 Biological Basis of Public Health

Credits 3. 3 Lecture Hours.

Biological mechanisms in individuals and populations affecting human health and disease; adverse health events including diseases, exposure to pathogens and toxins, and nutritional deficiencies.

Prerequisites: Public health major; junior or senior classification; or approval of instructor.

PHLT 305 Epidemiology in Public Health

Credits 3. 3 Lecture Hours.

Principles of epidemiology, a systematic approach to collecting and evaluating information on distributions of health outcomes in populations; history of epidemiology, descriptive epidemiology, epidemiologic methods, association and causation, evidence-based public health and applications.

Prerequisites: Public health major or minor, junior or senior classification, or approval of instructor.

PHLT 306 Border Health

Credits 3. 3 Lecture Hours.

United States-Mexico border public health system; includes issues important to public health at the border; addresses health challenges.

Prerequisite: Public health major; junior or senior classification; or approval of instructor.

PHLT 307 Public Health in the Global Context

Credits 3. 3 Lecture Hours.

Frameworks for understanding population health on a global scale; physical, social, cultural, geographic, political and economic interactions and interdependencies that influence global population health status.

Prerequisite: Public health major; junior or senior classification; or approval of instructor.

PHLT 308 Comparative Global Health Systems

Credits 3. 3 Lecture Hours.

Public health issues from population health and comparative perspectives at the global level; exploration of different public health systems in developing and developed countries.

Prerequisites: Public health major; junior or senior classification; or approval of instructor.

PHLT 309 Population Health Promotion

Credits 3. 3 Lecture Hours.

Major issues in population health promotion, including applying the concept of social determinants of health: the socio-economic, behavioral, and other factors that impact human health to address population health issues.

Prerequisites: Public health major; junior or senior classification; or approval of instructor.

PHLT 310 Public Health Writing

Credit 1. 1 Lecture Hour.

Strategies to become more familiar with types of writing required as public health students or public health professionals; strengthens and increases general writing skills; establishes a foundation for continued development in writing. Must be taken on a satisfactory/unsatisfactory basis.

Prerequisites: Public health major; junior or senior classification; or approval of instructor.

PHLT 311 Narrative Approach to Public Health

Credit 1. 1 Lecture Hour.

Familiarization with the writing style required for public health; instruction in writing styles and narrative techniques to increase and strengthen writing abilities in public health disciplines such as environmental and occupational health, health promotion and community health sciences, health policy and management, epidemiology and biostatistics. Must be taken on a satisfactory/unsatisfactory basis.

Prerequisites: Public health major; junior or senior classification; or approval of instructor.

PHLT 313 Health Care and Public Health System

Credits 3. 3 Lecture Hours.

Two distinct systems – health care system: an individual and medical services model and the public health system: population level disease prevention and health education.

Prerequisites: Public health major; junior or senior classification; or approval of instructor.

PHLT 314 Public Health Data Management and Assessment I

Credits 2. 2 Lecture Hours.

Familiarization with using the CDC software Epi-Info for managing, analyzing and assessing population health data; focus on using Epi-Info to produce descriptive data reports including tables and graphs.

Prerequisite: Public health major; junior or senior classification; or approval of instructor.

PHLT 315 Public Health Data Management and Assessment II**Credits 2. 2 Lecture Hours.**

Continuation of PHLT 314; familiarization with using the CDC software Epi-Info for managing, analyzing and assessing population health data; focus on using Epi-Info to generate inferential statistics such as confidence intervals and p-values.

Prerequisite: Public health major; PHLT 314; or approval of instructor.

PHLT 330 The Environment and Public Health**Credits 3. 3 Lecture Hours.**

Environmental exposures and population health; public health core knowledge; includes methods for defining environmental contamination; identifying contaminants, pathogens and toxins; assessing risks and causality; determining health impact; methods to decrease exposures.

Prerequisites: Public health major or minor, junior or senior classification, or approval of instructor.

PHLT 331 Occupational Safety and Health I**Credits 3. 3 Lecture Hours.**

Regulations and topics of relevance to occupational health professionals; includes legislation and regulations, workers' compensation, accident investigation, industrial hygiene, ergonomics and fire prevention with an emphasis on the health professionals' role.

Prerequisites: Public health major; junior or senior classification; or approval of instructor.

PHLT 332 Occupational Safety and Health II**Credits 3. 3 Lecture Hours.**

Occupational safety and health topics including behavior-based safety, workplace violence, preparedness, hazardous materials, construction, transportation, required written programs and professional resources.

Prerequisites: Public health major; PHLT 331; or approval of instructor.

PHLT 333 Accident Investigation**Credits 3. 3 Lecture Hours.**

Principles of accident investigation and how accidents happen in the workplace; integrates procedural, systematic, corrective and formative applications for the occupational health professional.

Prerequisite: Public health major; junior or senior classification; or approval of instructor.

PHLT 334 Fire Safety and Workplace Hazards**Credits 3. 3 Lecture Hours.**

Principles of fire safety and other workplace hazards such as electrical hazards, chemical hazards, respiratory hazards, falls, confined spaces, bloodborne pathogens, hearing loss, ergonomics and machine hazards.

Prerequisite: Public health major; junior or senior classification; or approval of instructor.

PHLT 335 Hazardous Materials**Credits 3. 3 Lecture Hours.**

Principles of managing materials in the workplace; role of the health and safety professional in hazardous material management and hazard communication.

Prerequisite: Public health major; junior or senior classification; or approval of instructor.

PHLT 370 Broad Street Learning Community II**Credits 3. 3 Lecture Hours.**

International perspectives on public health and healthcare, comparative historical, political and cultural effects on public health; second course in the Broad Street Learning Community sequence.

Prerequisites: Grade of B or better in PHLT 270.

PHLT 410 Public Health Communication**Credits 3. 3 Lecture Hours.**

Exploration of different communication approaches for addressing public health challenges; basic concepts of public health-specific communication, including risk communication, the use of mass media and evaluation of public health communication programs.

Prerequisites: PHLT 310; public health major; or approval of instructor.

PHLT 411 Project Management in Public Health**Credits 3. 3 Lecture Hours.**

Exploration of successful project management and administration in public health settings; includes project development, budgeting and implementation.

Prerequisites: Public health major; junior or senior classification; or approval of instructor.

PHLT 412 Health Advocacy and Policy**Credits 3. 3 Lecture Hours.**

Concepts of legal, ethical, economic and regulatory dimensions of public health policy; the roles, influences and responsibilities of the different agencies and branches of government; advocacy for the public's health at all levels of society.

Prerequisites: Grade of C or better in PHLT 313; public health major; junior or senior classification; or approval of instructor.

PHLT 413 Public Health Informatics**Credits 3. 3 Lecture Hours.**

Broad range of knowledge and skills encompassed by PHI; bridging public health data/information needs, information technology and stakeholders; creating user requirements to guide system design; evidence-based public health; electronic health records.

Prerequisite: PHLT 302 or approval of instructor.

PHLT 414 Applications of Epidemiology in Public Health**Credits 3. 3 Lecture Hours.**

Application of the concept of distribution, determinants and measurement of health and disease outcomes in populations in real life situations through lectures, case studies and presentations.

Prerequisites: Public health major; PHLT 305; or approval of instructor.

PHLT 415 Emergency Management in Public Health**Credits 3. 3 Lecture Hours.**

Principles and practices of emergency management at the local, state, national and international levels; explores stages of emergency management such as preparedness, response and recovery; includes population health and the basic processes, approaches and interventions; emergency management systems in the United States; actors in emergency management.

Prerequisites: Public health major; junior or senior classification; or approval of instructor.

PHLT 416 Public Health Leadership and Ethics**Credits 3. 3 Lecture Hours.**

Overview of major leadership and ethical theories, current leadership and ethical issues and their impact on public health practice.

Prerequisite: Public health major; junior or senior classification; or approval of instructor.

PHLT 432 Human Factors and Ergonomic Health and Safety**Credits 3. 3 Lecture Hours.**

Principles of ergonomics including principles of anatomy, physiology, instrument design, and work environments; emphasis on ergonomic design, implementing ergonomic programs.

Prerequisites: Public health major; junior or senior classification; or approval of instructor.

PHLT 433 Industrial Inspections and Audit Techniques**Credits 3. 3 Lecture Hours.**

Principles of conducting industrial audits for fire, safety and security; emphasis on the role of the health and safety professional, assessing safety programs and meeting regulatory requirements.

Prerequisites: Public health major; junior or senior classification; or approval of instructor.

PHLT 434 Project Cost Benefit and Economics**Credits 3. 3 Lecture Hours.**

Estimation and management of project costs; emphasis on improving accuracy of cost projection, making better modifications to cost on work in-progress.

Prerequisites: Public health major; junior or senior classification; or approval of instructor.

PHLT 436 Infectious Disease in the Developing World: Risks, Challenges, and Solutions**Credits 3. 3 Lecture Hours.**

Study of the challenges of infectious disease control in the developing world; topics include common infectious diseases, how they spread, social and economic consequences and the factors that influence prevalence.

Prerequisites: Public Health Studies major; junior or senior classification, or approval of instructor.

PHLT 441 Strategies for Population Health Improvement**Credits 3. 3 Lecture Hours.**

The three core functions of public health and strategies for improving population health; case studies exploring multiple types of interventions; involves class discussion, break-out groups and group assignments.

Prerequisite: PHLT 302; PHLT 411 or concurrent enrollment; public health major; junior or senior classification; or approval of instructor.

PHLT 445 Applications of Public Health**Credits 3. 3 Lecture Hours.**

Combines knowledge and skills related to public health experience and coursework to address public health issues; process of developing, implementing and evaluating public health interventions; role assignment and responsibilities in group assignments and presentations.

Prerequisite: Grade of C or better in PHLT 441; public health major; junior or senior classification; or approval of instructor.

PHLT 470 Global Public Health Systems and Practice Experiences**Credits 3. 3 Other Hours.**

Study abroad experiences led by School of Public Health faculty in select countries; lectures prior to departing and lectures and classes in country; engage in public health practice and research activities in country; visit public health agencies and programs in country.

Prerequisites: Junior or senior classification; approval of instructor.

PHLT 484 Public Health Studies Field Experience**Credits 3. 3 Other Hours.**

On the job training in the area of public health studies industry; development of objectives and goals; evaluation by supervisor required.

Prerequisites: Approval of instructor; junior or senior classification; public health major with a minimum overall 3.0 TAMU GPA.

PHLT 485 Directed Studies**Credits 1 to 4. 1 to 4 Other Hours.**

Directed study of selected problems in the area of public health studies. May be taken four times for credit.

Prerequisite: Approval of instructor.

PHLT 489 Special Topics In...**Credits 1 to 4. 1 to 4 Lecture Hours. 0 to 4 Lab Hours.**

Selected topics in an identified area of public health. May be repeated for credit.

Prerequisites: PHLT major; junior or senior classification or approval of instructor.

PHLT 491 Research**Credits 0 to 4. 0 to 4 Other Hours.**

Research conducted under the direction of faculty member in public health studies. May be taken two times for credit.

Prerequisite: PHLT 485; junior or senior classification and approval of instructor; 3.0 TAMU GPA.