PHLT - PUBLIC HEALTH (PHLT)

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

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; 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 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: 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 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: PHLT 441 or concurrent enrollment; 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.