

# ALLIED HEALTH (AHLT)

## **AHLT 1500 Introduction to Online Learning in Health Professions 3 s.h.**

Prepare students to take online courses including the use of the Blackboard learning environment and orient students to YSU and YSU's Health Professions programs. Help students acquire basic skills to be successful in online learning and emphasize skills and resources necessary to be successful in their personal, academic and career-related pursuits. In addition, this course will introduce students to topics such as career assessment and how to become a successful health professional in the 21st Century. Should be taken during a student's first 30 hours at YSU. Listed also as PHLT 1500 and RESC 1500.

**Prereq.:** PHLT, AHLT or RESC major.

## **AHLT 1502 Applied Pathophysiology 4 s.h.**

Introduction to clinical anatomy, physiology, and pathophysiology with application to acute and chronic illness.

## **AHLT 3704 Quantitative Methods in Health Sciences 3 s.h.**

This course is designed to provide the Health Care Professional with the ability to read and critically evaluate published research results and reports. Also, to become an educated consumer of medical/dental research and apply evidence based decision making. Critique research results to make judgments regarding the relevance, creditably and usefulness to clinical decision making. Allows for application of research results in the clinical setting.

**Prereq.:** MATH 2623 or consent of the instructor.

## **AHLT 3705 Pharmacotherapeutics 3 s.h.**

Advanced concepts and integration of various drug interactions as applied to modern drug therapy. Analysis of drug regimens related to a broad spectrum of pathologic conditions.

**Prereq.:** BIOL 1545 or BIOL 1551 and BIOL 1552, MATC 2605, or permission of instructor.

## **AHLT 3706 Practice Management for Dental Hygiene 3 s.h.**

Management of dental hygiene care including appointment control, developing and maintaining recall systems, and insurance management. Dental marketing problem solving and the business relationship between dental patients and dental hygiene professionals.

**Prereq.:** DHYG 2628.

## **AHLT 3707 Clinical Informatics for the Healthcare Provider 3 s.h.**

Application of health informatics by the practicing clinician in the clinical setting. Foundational and Structural Interoperability is provided to address the changing health care needs within the United States.

**Prereq.:** AHLT 3711 or consent of the instructor.

## **AHLT 3708 Preventive Public Health Care 3 s.h.**

Application of current health care philosophies in disease prevention. In-depth case study of a specific public health problem and its prevention.

**Prereq.:** BIOL 1545 or BIOL 1551 and BIOL 1552, or permission of instructor.

## **AHLT 3709 Elements of Urban Environmental Health Practices 3 s.h.**

Focus on development and implementation issues of environmental and public health programs necessary for urban and rural communities to meet acceptable public health standards at the local health department level with emphasis on resources and staffing. AHLT 3708, or permission of instructor. Also listed as PHLT 3709.

## **AHLT 3710 Gerodontology 3 s.h.**

In-depth study of geriatrics as it relates to dental hygiene care and specific concerns of the elderly. An extramural experience with a geriatric patient.

**Prereq.:** DHYG 1513.

## **AHLT 3711 Health Care Information Systems 3 s.h.**

The course is comprehensive analysis of the concepts and applications of medical informatics. Relevant technologies and "real world" skills are presented in the field of Medical Informatics using data and medical software.

**Prereq.:** AHLT 3704 or consent of instructor.

## **AHLT 3717 Health Care Policy 3 s.h.**

A comprehensive overview of the American healthcare system. Particular attention given to the design and implementation of the Affordable Care Act.

**Prereq.:** BIOL 1545 or EMS 1501 or MATC 2600 or MLT 1501 or AHLT major or POL 1560 or permission of instructor.

## **AHLT 3720 EMS Management 3 s.h.**

A review of EMS system design, staffing, chain of command, medical education, policies and procedures, record keeping, inter-agency relationships, community resources and involvement, and legal aspects relevant to private and public emergency medical services.

**Prereq.:** EMS 2614.

## **AHLT 3721 Pediatric Emergency Care 3 s.h.**

A study of the pathophysiology, symptomatology, advanced diagnostic and therapeutic techniques of medical and traumatic emergencies unique to the pediatric patient.

**Prereq.:** EMS 2640.

## **AHLT 3740 Pathology of Infectious Diseases 3 s.h.**

Pathology, prevention, transmission, and treatment of infectious disease; emphasis on nosocomial, opportunistic, and emerging bacterial, fungal, parasitic, and viral organisms.

**Prereq.:** BIOL 1545 or BIOL 1551 and BIOL 1552, or permission of instructor.

## **AHLT 3745 Impact of Medical Records on Healthcare Reimbursement 3 s.h.**

This course is designed to provide the Health Care Professional with knowledge of private, group and government insurance submissions, as well as the diagnostic and procedural coding system to manage electronic medical records. A review of ethical and legal requirements will be examined in relation to laws and regulations as they apply to insurance submission and electronic health records as well.

**Prereq.:** MATC 2602, MATC 2612 or MATC 2600 or approval from instructor.

## **AHLT 3755 Principles of Occupational Health and Safety 3 s.h.**

Contemporary concepts of occupational health and safety as they apply to health-related environments. Includes development of elements needed to implement comprehensive health and safety plans.

**Prereq.:** AHLT 3708.

## **AHLT 4801 Special Topics 1-3 s.h.**

The directed study and research of a special problem or issue related to the health field. The topic of interest allows the student to participate in the investigation of aspects of administration, education, business, or research as these pertain to the particular health specialty. May be repeated for a total of 6 s.h.

**Prereq.:** AHLT 5840 or permission of instructor.

## **AHLT 4804 Stress and the Health Care Professional 3 s.h.**

Personal reactions of those involved in health education or the delivery of health care to patients, families, and their health environment. Indicators of stress and coping strategies, organizational systems, communication theory, conflict resolution, problem solving, and burnout.

**Prereq.:** AHLT 5840 or permission of instructor.

## **AHLT 4805 Health Education for Allied Health 3 s.h.**

University as well as hospital-based programs reviewed in regard to accreditation, clinical vs didactic instruction, use of simulations, and evaluation techniques. Public health education and the role of the Allied Health professional. A major learning unit and/or research project required.

**Prereq.:** AHLT 5840 or PHLT 3701 or permission of instructor.

## **AHLT 4806 Research Methods 3 s.h.**

Measurement and interpretation of health data and their application in the research process. Research design considerations, data collection methods, and data analysis of health care research projects.

**Prereq.:** AHLT 3704.

## **AHLT 4808 Environmental Health Concerns 3 s.h.**

Industrial hygiene, hazardous and infectious waste, air and quality, and sanitation policies in health care facilities. Pertinent federal, state, and local legislation.

**Prereq.:** AHLT 3708 or permission of instructor.

**AHLT 4810 Management Skills for Health Professionals 3 s.h.**

A study of the conceptual framework of supervision in Health Care Organizations with emphasis on managerial skills, formulation of policies, principles of budgeting, performance appraisals, and community relations.

**Prereq.:** AHLT 5840, AHLT 4805, or permission of instructor.

**AHLT 4812 Advanced Cardiac Life Support 3 s.h.**

ECG interpretation, cardiovascular drug pharmacology, airway management and resuscitation techniques used in the management of cardiac emergencies. The course exceeds the objectives of the American Heart Association's Advanced Cardiac Life Support program for initial certification or recertification. Two hours lecture, three hours laboratory.

**Prereq.:** AHLT 3705 or permission of instructor.

**AHLT 4813 Adult Cardiac and Pediatric Advanced Life Support 3 s.h.**

Twelve-lead ECG interpretation, cardiovascular pharmacology, advanced airway management, vascular access, and resuscitation techniques used in the management of adult cardiac and pediatric emergencies. Successful completion of the course will result in AHA ACLS and PALS certification. Two hours of lecture and three hours of lab.

**Prereq.:** AHLT 3705 or permission of instructor.

**AHLT 4820 Directed Research 3 s.h.**

Individual study of an issue related to the health care field. Students must present research at a faculty and student forum.

**Prereq.:** Senior standing and AHLT 4806 or a research methods course approved by the course instructor.

**Gen Ed:** Capstone.

**AHLT 4825 Patient Advocacy for the Health Professional 3 s.h.**

This course is designed for the health care professional and focuses on basic concepts of patient advocacy in healthcare facilities. Examines the problems in healthcare quality and how advocacy by professionals can ensure that best practices are adopted. An emphasis on conceptual frameworks, debates, and ethical issues within the field are utilized. Patient centered care, patient safety systems, patient involvement and leadership design, delivery and access will be addressed.

**Prereq.:** Junior Status, AHLT 3708, or consent of the instructor.

**AHLT 4831L Industrial Hygiene Laboratory 1 s.h.**

Application of basic concepts of industrial hygiene including anticipation, recognition, and evaluation of environmental and safety hazards as they pertain to the workplace.

**AHLT 4835 Health Care Diversity 1 s.h.**

Strategies of communication that enable the student to understand socioeconomic, political, ethnic, and religious diversity in health care.

**Prereq.:** AHLT 5840 or permission of instructor.

**AHLT 5807 Epidemiology 3 s.h.**

A study of the interrelationships of the host, agent, and environment in determining the causation, frequency, and distribution of disease.

**Prereq.:** AHLT 3708, AHLT 5840, AHLT 4806, or permission of instructor.

**AHLT 5816 Environmental Regulations 3 s.h.**

Structure and function of federal, state, and local agencies responsible for implementing environmental legislation. Emphasis on the duties and authority of different health and environmental agencies and specific legislation dealing with environmental impacts.

**Prereq.:** AHLT 3708, AHLT 5807 or permission of instructor.

**AHLT 5831 Industrial Hygiene 3 s.h.**

Basic concepts of industrial hygiene including anticipation, recognition, and evaluation of environmental and safety hazards as they pertain to the workplace.

**Prereq.:** AHLT 3708, AHLT 4808 or permission of instructor.

**AHLT 5840 Comparative Health Systems 3 s.h.**

Problems and issues facing global health care systems including access to care, financing and rationing of services. A major project is included.

**Prereq.:** AHLT 3708 or permission of instructor.