

# HEALTH SCIENCES

The Health Sciences area provides students the flexibility to utilize multiple disciplinary training options in a variety of technical fields.

Students earning the Technical Certificate in Health Professions may go directly into the healthcare support workforce as nursing assistants, emergency medical technicians, community health workers or phlebotomists (depending on option chosen); or continue on for advanced training and education. Students successfully completing the Health Professions program may continue on to pursue an Associate of General Studies and Bachelor of Professional Studies.

Students who are pursuing a program of study where admission is limited (Cardiovascular Technology, Cosmetology, Medical Assisting, Occupational Therapy Assistant, Paramedic/Emergency Medical Services, Physical Therapist Assistant, Practical Nursing and Registered Nursing), will be assigned a major of Health Professions until admitted into their selected program. Students will also need to hold a current CPR for Health Care Providers certification prior to the first day of the first semester they begin an allied health program.

High school students may begin the Health Sciences program by taking classes concurrently with their regular studies and earn credit toward a certificate of proficiency which will apply to the technical certificate and associate of applied science degree.

## Programs

- Health Professions, Technical Certificate (<https://catalog.atu.edu/ozark/programs/health-sciences/health-profession-tc/>)
- Health Sciences, Certificates of Proficiency (<https://catalog.atu.edu/ozark/programs/health-sciences/health-sciences-cp/>)
- Pharmacy Technician, Certificates of Proficiency (<https://catalog.atu.edu/ozark/programs/health-sciences/pharmacy-technician-cp/>)
- Phlebotomy, Certificates of Proficiency (<https://catalog.atu.edu/ozark/programs/health-sciences/phlebotomy-cp/>)

## Courses

### HSCI 1002 Phlebotomy Practicum

Co-requisite with HSCI 1004. This course is taught through laboratory, and clinical experiences. Students will learn to perform a variety of blood collection methods using proper techniques and precautions including vacuum collection devices, syringes, capillary skin puncture, butterfly needles, and finger sticks or heel sticks for young children and infants. Non-blood specimen collection practices are also covered. Internship/Practicum. Ozark Malpractice

### HSCI 1004 Phlebotomy

Co-requisite with HSCI 1002. Highly encouraged to already have taken Medical Terminology and Human Anatomical Structure or have previous knowledge of the cardiovascular system. Students will learn how to prepare the blood collection site; choose the proper collection tools; and handle the transportation, processing and management of collected samples. Emphasis will be placed on infection prevention, proper patient identification, proper labeling of specimens, and quality assurance for proper laboratory procedures and in order to avoid contamination or infection of yourself and others. Medical and legal ethics as they related to phlebotomy services are also taught. Lecture. Ozark Allied Health

### HSCI 1113 Medical Terminology

Medical Terminology is the study of the language of medical words that relate to the body systems, anatomical structures, and medical processes and procedures. This course includes medical word construction, definitions, spellings, and the use of terms in the medical field. Ozark Allied Health

### HSCI 1123 Human Anatomical Structure I

This course is the first in a two semester sequence that covers the basic structure and function of human organ systems including mechanisms of homeostasis. The course presents concepts which will assist in the development of basic understanding of internal relationships within the human body. Specific topics include: body organization, basic biochemistry, cell biology, tissues, the integumentary, special senses, lymphatic, digestive and reproductive systems. Ozark Allied Health

### HSCI 1243 Human Anatomical Structure II

Prerequisite: HSCI 1123.

This course is the second in a two semester sequence that covers the basic structure and function of human organ systems including mechanisms of homeostasis. The course presents concepts which will assist in the development of basic understanding of internal relationships within the human body. Specific topics include: skeletal, muscular, nervous, endocrine, blood, cardiovascular, respiratory and urinary systems. Lecture: 3 hours, Ozark Allied Health