

### Practical Nursing

The Licensed Practical Nurse is a technical nurse practicing under the direction of a registered professional nurse, licensed physician or licensed Dentist. Practical Nursing programs are accredited by the WV State Board of Examiners for Licensed Practical Nurses. Successful graduates are eligible to take the national NCLEX for licensure.

### Respiratory Therapy Technician

A Respiratory Therapy Technician is an allied health professional who administers general respiratory care, including collection and review of clinical data; examination of the patient; and assembling and maintaining equipment used in respiratory care. Programs are approved by the Commission on Accreditation of Allied Health Education Programs. Successful graduates are qualified to take the technician certification examination of the National Board for Respiratory Care.

### Surgical Technician

The Surgical Technician programs trains allied health professionals, who are an integral part of the team of medical practitioners providing surgical care to patients in a variety of settings. Surgical technologists work under medical supervision to facilitate the safe and effective conduct of invasive surgical procedures.

### Scope and Sequence

Scope and sequence is a recommended curriculum plan organized according to the successive levels at which they are taught. See insert .

### Health Science Careers Specialties

An abundance of Health Science Careers are available within the healthcare industry, making the student's career of choice readily obtainable. See insert.

### What is HOSA?

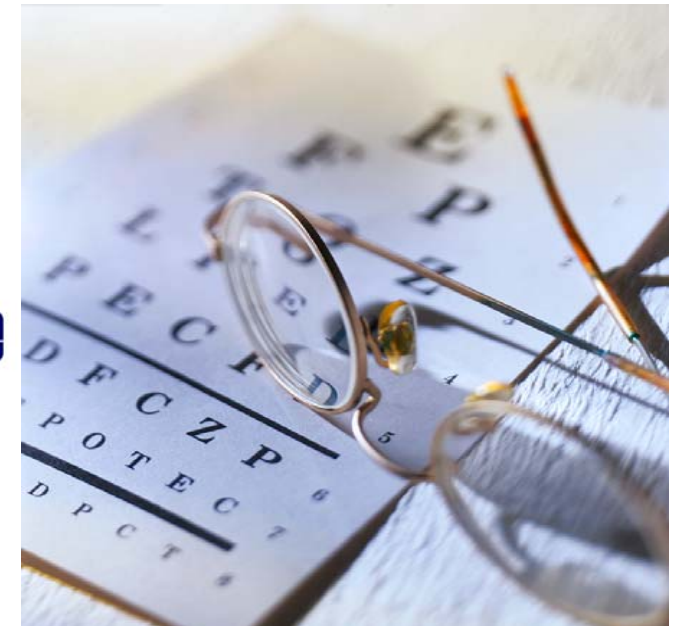
HOSA is a national organization endorsed by the U.S. Department of Education and the Health Science Education Division of the Association Of Career and Technical Education. HOSA is the only career and technical student organization designed to exclusively serve the needs of students in Health Science Education training programs.

The mission of HOSA is to enhance the delivery of compassionate, quality healthcare by providing opportunities for knowledge, skill, and leadership development of all health science technology education students, thus helping the students meet the needs of the health care community.

West Virginia HOSA was chartered in 1995. Since its inception, WV HOSA has grown steadily reaching over 1600 members through 65 affiliated HOSA chapters (2008-2010). HOSA membership enhances student achievement by leadership and skill development, through the participation in local, state, and national co-curricular activities and projects. To learn more about HOSA, visit <http://www.hosa.org> and <http://www.wvhosa.org>.



**West Virginia  
Health Science  
Education**



**Health Science Education Cluster  
Program of Study  
Scope & Sequence  
Concentrations  
Electives**

## What is the Health Science Education Cluster?

- The Health Science Education (HSE) Cluster prepares students for a future career in healthcare.
- HSE content standards and objectives are based upon the National Healthcare Skill Standards.
- Standards and objectives represent the skills and knowledge, both academic and technical, necessary to pursue career opportunities from entry level to management, including technical and professional career specialties. Coursework offers Health Science Education students the advantage by bridging seamlessly to post-secondary education and healthcare careers.

## What is a Health Science Education Program of Study?

A Program of Study is the selection of courses, that when delivered effectively, enables students to master the knowledge and skills needed to succeed in their chosen clusters and concentrations and leads to success in the global workplace and post-secondary education. (Policy 25.10)

### Concentrations:

- HE0780 Biomedical Technology
- HE0700 Dental Assisting
- HE0740 Health Informatics
- HE0710 Health Occupations Science Technology
- HE0730 Medical Assisting
- HE0790 Medical Emergency Preparation
- HE0750 Medical Laboratory Assisting
- HE0768 Medical Transcription and Information Specialist
- HE0709 Pharmaceutical/Medical Professional Sales and Marketing
- HE0769 Pre-Pharmacy

### Programs:

- HE0764 Dental Laboratory Technology\*
- HE0770 Pharmacy Technician\*
- HE0776 Practical Nursing\*
- HE0779 Respiratory Therapy Technician\*
- HE0782 Surgical Technician\*

Concentrations consist of four required core courses and a variety of recommended electives. Concentrations and programs, encompass content established and regulated by state and/or national accreditation and credentialing agencies and is delivered by specific content standards and objectives. All concentrations and programs include a work-based internship and must provide students the opportunity to obtain a state and/or national certification or licensure where one is available.

*\*Adult Preparatory Program*

## Concentrations/Programs Overview

### Biomedical Technology

Biomedical Technology involves the application of engineering and technology principles to living or biological systems. The primary focus is knowledge and skills common to a variety of health care careers, with an introduction to Biomedical Technology.

### Dental Assisting

Dental Assisting includes clinical, radiographic, and administrative procedures common to a dental office.

### Health Informatics

Health Informatics combines information science and healthcare, utilizing resources, devices, and methods required for the collection, storage, retrieval, and use of information required in the delivery of healthcare.

### Health Occupations Science Technology

Health Occupations Science Technology provides a broad knowledge and skills foundation which is common to a variety of healthcare careers, utilizing a diversified approach to support the student's educational and career goals. A career specialization is selected and pursued by the student.

### Medical Assisting

Medical Assisting involves administrative and clinical knowledge and skills common to the offices of licensed health practitioners.

### Medical Emergency Preparation

Medical Emergency Preparation encompasses the knowledge and skills needed within multiple emergency services, dedicated to providing out-of-hospital acute medical care and/or transport to definitive care, to patients with illnesses and injuries considered a medical emergency.

### Medical Laboratory Assisting

Medical Laboratory Assisting involves the preparation and processing of specimens and the performance of biochemical tests on samples within a medical laboratory, for the purpose of creating a picture of the health status of the client at a single point in time.

### Medical Transcription and Information Specialist

Medical transcription is the process of converting voice-recorded reports, as dictated by physicians and/or other healthcare professionals, into text format. Combining the knowledge and skills required within the area of Health Informatics, this healthcare career documents client care.

### Pharmaceutical/Medical Professional Sales and Marketing

The focal point of this concentration converges on the commercial processes involved in promoting, selling, and distributing pharmaceutical and/or medical products or services.

### Pre-Pharmacy

Pre-Pharmacy explores the careers found within a pharmacy and focuses upon the knowledge and skills required of the Pharmacy Technician.

### Dental Laboratory Technology

The Dental Laboratory Technology program presents the knowledge and skills necessary for the production of dental restorations ordered by a dentist (i.e. dentures and crowns).

### Pharmacy Technician

The Pharmacy Technician program prepares those who desire to work under the direct supervision of a licensed pharmacist to perform many pharmacy-related functions. Successful graduates are eligible to take the competency exam administered by the WV Board of Pharmacy.