

# HOSA

One of HOSA's goals is to empower HOSA-Future Health Professionals to become leaders in the global health industry through education, collaboration, and experience.

The purpose of HOSA-Future Health Professionals is to provide leadership and technical HOSA skill competencies through a program of motivation, awareness and recognition, which is an integral part of the Health Science Education program.

Values that HOSA believes are vital to each member are:

- promote physical, mental and social wellbeing.
- develop effective leadership qualities and skills.
- develop the ability to communicate more effectively with people.
- develop character.
- develop responsible citizenship traits.
- understand the importance of pleasing oneself as well as being of service to others.
- build self-confidence and pride in one's work.
- make realistic career choices and seek successful employment in the healthcare field.
- develop an understanding of the importance of interacting and cooperating with other students and organizations.
- encourage individual and group achievement.
- develop an understanding of current health care issues, environmental concerns, and survival needs of the community, the nation and the world.
- encourage involvement in local, state and national health care and education projects.
- support Health Science Education instructional activities.
- promote career opportunities in health care



## HEALTH SCIENCE TECHNOLOGY

The Health Science Cluster focuses on careers in planning, managing, and providing health care. The program provides students with opportunities to explore a variety of health careers and make realistic and satisfying choices. Whether a student is skilled in scientific research, clinical procedures, written and verbal communication skills, or is skilled in working for people, career options are available to match these individual strengths and abilities. The Career & Technical Student Organization is a curricular part of this course is HOSA.

The teachers in the Health Science Technology department possess a wealth of knowledge and a wide background in health care. The faculty includes:  
Sydney Davis, CPhT  
Jennifer Lewis, M.S., LAT  
Chelsea Nicoli, M.Ed.  
Debbie Pope, BSN, MS, RN  
Paxton Wade

**Health Science (PHS) (1 credit)                      Grades 9-10**  
Principles of Health Science course is designed to provide students of the therapeutic, diagnostic, health informatics, support and biotechnology research and development systems of the health industry.

**Medical Terminology (MT) (1 credit)                      Grade 9-10**  
Prerequisites: Biology & PHS  
Medical Terminology course is designed to introduce students to the structure of medical terms, including prefixes, suffixes, singular and plural forms, and medical abbreviations. The course helps students to achieve comprehension of medical terminology appropriate to medical procedures, human anatomy and human pathophysiology.

**Health Science Theory (HST) (1 credit)                      Grade 11**  
Prerequisites: PHS and MT. Corequisite: HSC  
Health Science Theory course is designed to provide students with a foundation of advanced knowledge and skills related to a wide range of health careers. Students will employ hands-on experiences to gain knowledge and skill development.

**Health Science Clinical (HSC) (1 Credit)                      Grade 11**  
Prerequisites: PHS and MT. Corequisite: HST  
Health Science Clinical course is designed to provide students with a foundation of advanced knowledge and skills related to a wide range of health careers. Students will employ hands-on experiences to gain knowledge and skill development.

**Pharmacology (PHCOL) (1 credit)                      Grade 11**  
Prerequisites: PHS and MT  
Pharmacology course is designed to study how natural and synthetic chemical agents such as drugs affect biological systems. Understanding of the properties of therapeutic agents is vital in providing quality health care. It is an ever-changing, growing body of knowledge that continually demands greater amounts of time and attention from health care workers.

**Human Anatomy and Physiology (HAP) (1 credit)                      Grade 12**  
Prerequisites: Biology and Chemistry; Students in the Health Cluster will be expected to take PHS and MT before HAP.  
The Human Anatomy and Physiology course is designed to help students to conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions based on critical thinking and scientific problem solving. Students in Anatomy and Physiology will study a variety of topics, including the structure and function of the human body and the interaction of systems for maintaining homeostasis.

**Medical Microbiology (MMB) (1 credit)                      Grade 12**  
Prerequisite: Biology and Chemistry: Students in the Health Cluster will be expected to take PHS and MT before MMB.  
The Medical Microbiology course is designed to help students understand the microbial world, studying topics such as pathogenic microorganisms, laboratory procedures, antibiotic resistant microorganisms, drug resistant organisms, and emerging infectious diseases.

**Medical/Pharmacy Practicum in Health (2 credits)                      Grade 12**  
Prerequisites: Biology, PHS, MT, HST, either HAP or either PHCOL or HST & HSC; Application Process: Entrance is Required  
The Practicum in Health Science course is designed to help students apply their practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of settings appropriate to the nature and level of experience. **\*\*Students must provide his/her own transportation to and from the internship.**

**Special Note: Students interested in the Sports Medicine Study should enroll in the non-CTE courses of Sports Medicine II and or Athletic Training I, II, III, or IV. They should also enroll in the CTE courses of MT and HAP to take the Practicum in Health Science during their senior year. Please contact the Head Athletic Trainer, Mrs. Laws Kidwell for application. For more details, visit a counselor and review the Student Guide for descriptions of the Sports Medicine courses.**