

## 2024-2025 Health Science Education

### Comprehensive High School Courses

<b>8550</b>	<b>HEALTH CAREERS</b>		<b>Grade Level</b>	<b>Site Code</b>	<b>CTIMS Code</b>
8551	Foundations of Healthcare Professions		9-12	C	HL00279
8552	Essentials of Healthcare Practices		9-12	C	HL00175
8554	Health Careers Capstone		9-12	B	HL00417
8556	Sports Medicine		9-12	B	HL00391
8557	Biomedical Technology		9-12	B	HL00392
8558	Exercise Science		9-12	C	HL00599

#### Adding in 2024-2025

8563	Behavioral Health		9-12	C	
8562	Public Health		9-12	C	
8559	Medical Terminology (STEM and Health)		9-12	C	

#### SDE Authorized for Oklahoma Promise Science

5333	Anatomy/Physiology		9-12	B	HL00046
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#### 2024-2025 Course Descriptions

**8551 Foundations of Healthcare Professions 9-12 C HL00279**

Students will develop professional written and oral communication examples and address the foundation standards including health maintenance, employability skills, teamwork, and safety practices to ensure effective patient-centered outcomes between healthcare professionals, patients, and caregivers. Group activities create the optimal learning environment for many of these objectives and students will become involved members of HOSA-Future Health Professionals to address the standards. Finally, OSHA-10 certification will be obtained through completion of the Health Science version of *CareerSafe*, allowing students to be eligible for entry level careers both in and out of healthcare.

**8552 Essentials of Healthcare Practices 9-12 C HL00175**

Essentials of Healthcare Practices builds on curriculum introduced in Foundations of Healthcare Professions. Enhanced written and oral communication skills and medical math principles are discussed and students are introduced to basic medical terminology roots, prefixes, and suffixes to communicate body systems, diseases, and disorders. Students will identify how key systems affect services performed and quality of care. This course defines legal responsibilities, limitations, and implications on healthcare worker actions and investigates accepted ethical practices with respect to cultural, social, and ethnic differences within the healthcare environment. Students will learn basic technical skills for measuring and recording vital signs and CPR/airway obstruction skills.

**8554 Health Careers Capstone 9-12 B HL00417**

This course is the capstone course for high school health programs. It offers students the opportunity to choose intensive theme study areas and complete an internship or mentorship with a health professional or health organization. Students finalize their health portfolio, certification requirements and transition strategies for college or other educational/training options. Students are required to complete community outreach projects through involvement with HOSA-Future Health Professionals Competitive Events.

**8556 Sports Medicine 9-12 B HL00391**

Sports Medicine is a full year course and is designed for students interested in fields such as athletic training, physical therapy, medicine, fitness, physiology of exercise, kinesiology, nutrition, and other sports medicine related fields. The course includes class work and practical hands-on applications in the following areas: prevention, treatment, and rehabilitation of sports injuries, taping and wrapping of injuries, first aid/CPR, emergency procedures, nutrition, sports psychology, anatomy and physiology, fitness/conditioning/strength programs, and sports medicine careers. The course also offers practical experiences with local sports medicine specialists.

**8557 Biomedical Technology 9-12 B HL00392**

Biomedical Technology is an overview of the terminology, legal and ethical principles, and innovative technology use in medicine. Basic communication and math skills are utilized to discuss forensic medicine, bioterrorism, research in cancer and organ transplants, and biomedical research. Occupations in biomedical technology, challenges to current research and future issues in healthcare will round out the instruction.

**8558 Exercise Science 9-12 C HL00599**

The Exercise Science course is designed for CareerTech students in a comprehensive high school setting. The focus of the course is functional anatomy and how it relates to exercise science; health appraisal and fitness testing; exercise programming; nutrition and weight management; and fitness education and exercise program development. In addition, communication, legal and ethical behaviors, health maintenance practices and safety are further developed beyond the original National Health Science Standards level.

**8563 Behavioral Health****9-12****C**

This course will establish a foundation necessary to understand Behavioral Health and investigate the career field of Behavioral Health. While students will learn about recognizing, preventing, and treating behavioral and mental health disorders, they will integrate the healthcare professional's role throughout the standards. Students in behavioral health will learn more about career fields such as psychology, nursing, physicians and other technical or scientific careers.

**8562 Public Health****9-12****C**

This foundational course will provide introductory information for students interested in public health careers. This course will provide an understanding of the various components that influence personal, community, and population health in our world. The students will be introduced to epidemiology and biostatistics while analyzing foundational principles of public health education.

**8559 Medical Terminology****9-12****C**

Medical terminology is designed to develop a working knowledge of the language of health professions. Students acquire word-building skills by learning prefixes, suffixes, roots, combining forms, and abbreviations. Utilizing a body systems approach, students will define, interpret, and pronounce medical terms relating to structure and function, pathology, diagnosis, clinical procedures, and pharmacology. Students will use problem-solving techniques to assist in developing an understanding of course concepts.

**SDE Authorized for Oklahoma Promise Science****5333 Anatomy/Physiology****9-12****B****HL00046**

Anatomy/Physiology is the study of the structural complexity of the human body and its intricate functional mechanisms. This course is taught as a laboratory science. Students will conduct scientific investigations and fieldwork using scientific knowledge and methodology that will enable them to make educated conclusions based on higher-level critical thinking and problem-solving skills. The areas studied will be an integration of biology and chemistry and will include but are not limited to: Organization of the body, Chemical Basis for Life, Cells & Tissues, Integumentary System, Skeletal system, Muscular system, Nervous system, Endocrine system, Blood, Circulatory system, Lymphatic & Immune systems, Respiratory systems, Digestive system & Metabolism, Urinary system, and Reproductive system. An emphasis should be placed on real-world applications and active-learning exercises should be included along with laboratory experiences.