

**COURSES**



- LEVEL 1
- LEVEL 2
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**POSTSECONDARY OPTIONS**

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH

**WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES**



# COURSE INFORMATION

COURSE NAME	COURSE NUMBER AND CREDITS	PREREQUISITES (PREQ) COREQUISITES (CREQ)	GRADE
Principles of Health Science	8650 (1 credit)	None	9-10
Medical Terminology	8651 (1 credit)	Principles of Health Science	10
Health Science Theory	8652 (1 credit)	Principles of Health Science & Medical Terminology	11
Anatomy & Physiology	8657 (1 credit)	PREQ: Biology & 2nd Science CREQ: Health Science Theory	11
Practicum in Health Science Dual Credit	8658-6 AND 8659-6 (1 credit) 8668-6 and 8669-6 (1 credit) 8655 (2 credits) 8654-6 AND 8660-6 (3 credits)	Health Science Theory & Anatomy and Physiology	12

## COURSE DESCRIPTIONS

### Principles of Health Science:

This course provides the beginning student with an overview of the health care field. The basic entry-level information that is covered serves as a solid foundation for all students in health sciences or health occupations, regardless of the particular health care profession they are interested in pursuing. An overview of content includes: Health Care Systems; Careers in Health Care; Personal Qualities of a Health Care Worker; Leadership and Teamwork concepts.

### Medical Terminology

The student will learn and recognize word roots, prefixes, and suffixes used in medical language today and will learn how to combine words to create meaningful medical conditions as well as comprehend their definition and know the correct spelling. The course will cover medical terms related to all major body systems, including: muscular, skeletal, respiratory, circulatory, digestive, reproductive, and urinary systems. Learning the language of medicine is an exciting and rewarding journey for any student who is considering health care as a chosen profession.

### Health Science Theory:

This course prepares students for the transition to certification programs and hands-on experience in health care. Focus is on leadership, legal and ethical issues, and introduction to emergency measures such as first aid and advanced cardiopulmonary resuscitation (CPR).

### Anatomy & Physiology:

Anatomy is the study of human body parts, while physiology explains how they work and interact with each other to carry out the body's activities. Students will take a hands-on approach to learning these structures and functions through the use of microscopes, animal dissections, and computer simulated labs.

### Extended Practicum In Health Science C.N.A. Dual Credit: College Credit: NURA 1401, 1307, & 1160

The practicum is a competency training course designed to prepare students in their first career in medicine. Students gain knowledge to work side by side with nurses in providing patient bedside care in a classroom/clinical lab area. Basic nursing skills, rehabilitation skills, and mental health skills among other areas are learned during the 100 hr. training program. In addition, Texas Department of Aging and Disability Services (DADS) requires students to provide actual hands-on experience with real patients; therefore, students attend 40 hours of clinical rotations in a local nursing and rehabilitation clinical training site.

Certified by the Texas Department of Health Human Services Department of Aging, Disability Services

### Practicum in Health Science C.M.A. Dual Credit: College Credit: MDCA 1205, 1210, & 1352

Students will gain knowledge and skills related to both clinical and administrative duties for a variety of providers including physicians, nurse practitioners, and physician assistants. Students will learn procedures commonly performed in the ambulatory health care setting to include medical offices, clinics, urgent care center, or specialty health care practices.

Certified by National Healthcareer Association (NHA)

### Extended Practicum in Health Science E.M.T. Dual Credit: College Credit: EMSP 1360, 1455, 1456, & 1501

Certification Course instructs students in the pre-hospital care and transportation of the sick and injured. The material covered in this course is divided into 7 modules. They are: Preparatory, Airway Management, Patient Assessment, Medical Emergencies, Trauma Emergencies, Infants and Children and Operations. Students develop competencies both in academic content and the psychomotor skills necessary for the care and treatment of patients in the field.

Certified by the Texas Department of Health Human Services National Registry of EMT

### Practicum in Health Science EKG Dual Credit: College Credit: MDCA 1317

Emphasis on patient assessment, examination, and treatment as directed by physician. Includes vital signs, collection and documentation of patient information, asepsis, office clinical procedures, and other treatments as appropriate for ambulatory care settings.

Certified by National Healthcareer Association (NHA)

### Practicum in Health Science Phlebotomy Dual Credit: College Credit: PLAB 1323

Skill development in the performance of a variety of blood collection methods using proper techniques and standard precautions. Includes vacuum collection devices, syringes, capillary skin puncture, butterfly needles and blood culture, and specimen collection on adults, children, and infants. Emphasis on infection prevention, patient identification, specimen labeling, quality assurance, specimen handling, processing, accessioning, professionalism, ethics, and medical terminology. Opportunity to earn two certifications.

Certified by National Healthcareer Association (NHA)

**Courses in yellow are advanced courses for endorsement purposes.**

