

Practicum in Health Science (CCMA/EKG) Syllabus

Course Description/Goals:

Practicum in Health Science is a course designed to give students practical application of previously studied knowledge and skills. Practicum provides a unique experience that allows students the opportunity to participate in a learning environment that combines classroom instruction with real business and industry career experiences in a professional medical setting. There is an emphasis on phlebotomy, CPR, vital signs, and nursing skills. An examination for CPR, CCMA and EKG is required by the end of the course.

Course TEKS/Objectives:

The Practicum in Health Science course is designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. To pursue a career in the health care industry, students should learn to reason, think critically, make decisions, solve problems, and communicate effectively. Students should recognize that quality health care depends on the ability to work well with others.

<https://tea.texas.gov/about-tea/laws-and-rules/sboe-rules-tac/sboe-tac-currently-in-effect/ch127j.pdf>

Course Outline:

Semester 1	Semester 2
<ul style="list-style-type: none">● Healthcare systems, terminology, and legal-ethical frameworks● Introduction to pharmacology, nutrition, and psychology● General clinical assistance and safety protocols	<ul style="list-style-type: none">● Patient education planning, communication techniques● Discharge instructions, follow-up care, and referral coordination● Scheduling, EHR documentation, billing and coding basics

- Anatomy of major systems, cellular structure, and microbiology
- Disease mechanisms and pathophysiology
- Patient intake, vital signs & body measurements
- Phlebotomy, point-of-care testing, infection control
- HIPAA, informed consent, medical law basics

- Insurance processes, patient records management
- Customer service, professional behavior, and workplace communication
- EKG preparation and cardiovascular testing
- EKG Acquisition
- EKG Analysis & Interpretation