

# Facts to Remember About Health Science Courses 2021-22

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## Nursing Education

If a course is taught so students can obtain Certified Nursing Assistant (CNA), the following guidelines must be followed:

- The course must be taught by a Registered Nurse with at least two years of experience. One year must be in long-term (nursing home) care experience.
- If the teacher does not have one year long-term care experience, the district/school must contract with a coordinator from a local long-term care facility.
- The high school program must register and receive approval from the TN Department of Health, Nurse Aide Training division for its training program, 30 days BEFORE the first day of class.
- Program packets may be obtained from [Teri James](#).
- Examples for how to complete the paperwork may be found in the Resources on the Health Science website.
- Teachers WHO HAVE NEVER taught the Nursing Education course in a high school setting must attend/complete the following prior to teaching:
  - Occupationally Licensed New Teacher Training
  - Online [Nursing Education Self-Paced Training Course](#)
  - Trainings provided by state testing contractor D&S Diversified Technologies (this training should take place within the first year of the program's inception).
  - Once a teacher has attended/completed the aforementioned training, he/she will be required to keep current with WBL certification and attend the training provided by D&S Diversified Technologies every two years. Failure to follow this guideline may result in the loss of the program's ability to test students.

- Training through D&S Diversified is held three to four times per year in Tennessee. To locate a test date and training location, click [here](#) and select *Instructor Workshop Information & Newsletters*.
- Attendance requirement for students to qualify to take the state CNA test is 100 hours minimum, 40 hours didactic, 20 hours classroom lab, and 40 hours clinical with at least 24 hours in long-term care, the other 16 hours can be in any healthcare facility that employs CNA's.
- Student to teacher ratio must be no more than 15:1.
- Any changes in the district/school program should be reported within 30 days of a change to Department of Health, Nurse Aide Training division at 615-532-5171 or email [Teri James](#).
- Each program shall have a pass rate of 70 percent for the state competency evaluation (written and performance exam). **Failure to meet this benchmark may result in sanctions by the Department of Health. Follow [this link](#) for Tennessee Department of Health regulations.**

## Medical Terminology

- If this course is taught as dual enrollment or dual credit course, the district/school must have a local dual enrollment agreement in place with a postsecondary institution prior to offering the course. The teacher must adhere to (and meet) all standards as prescribed by the postsecondary institution.
- The postsecondary institution's approved textbook can be used when teaching either as a dual enrollment or dual credit course.
- If the district/school has an arrangement for challenge exams with a postsecondary institution, teachers should have a plan in place for preparing students for success on the challenge exam.
- The course can easily be taught on an alternative schedule, before school, or in an online format.

## Anatomy and Physiology

- The Anatomy and Physiology (C14H09) course satisfies one of three credits required for an elective focus when taken in conjunction with other Health Science courses. It can also count as a science credit and is accepted by the NCAA as a science course.
- Teacher endorsements for Anatomy and Physiology (C14H09) include 577 and 720. Highly qualified status has been retired.

## Clinical Internship and Work-Based Learning

- It is strongly recommended all students progress through the program of study aligned to a clinical internship.
- Students are to be placed in occupations that are directly related to a pre-requisite course. For example, an appropriate placement for Medical Therapeutics could be dentistry, respiratory therapy, physicians, or pharmacy, while an inappropriate placement would be physical therapy, any EMS situation, medical laboratory or radiology.

- Clinical Internships (C14H11) are provided for students to work in clinical settings to apply content and practice skills learned in levels one through three in a program of study. In situations where students will work **only** in the classroom to apply content and skills, students should be placed in Work-Based Learning (C20H17).
- Teachers WHO HAVE NEVER taught the Clinical Internship course must attend/complete the following prior to teaching:
  - Online [Clinical Internship Self-Paced Training Course](#)
  - Work-Based Learning training

## Emergency Medical Services

If a course is taught for Emergency Medical Responder (EMR) certification, the following guidelines must be followed:

- The course must be taught by a teacher who has experience in either pre-hospital or hospital emergency situations.
- The course can also be team-taught with a state approved instructor for Emergency Medical Responder (EMR) who is in the classroom a minimum of **60 hours** per course. (An EMT or Paramedic who does not have instructor status will not qualify to teach this course.)
- The state approved EMR instructor must file a required written request with an EMS Regional Consultant at least 30 days prior to the first day of class for approval to become a training program.
- Equipment for the course must be on-site when the EMR instructor teaches the skills. (Work with local EMR instructor for list of required equipment.)
- The teacher (or school designee) must be in the classroom with the EMR instructor at all times.
- Student to teacher ratio must be no more than: 12:1.
- Teachers who are Registered Nurses and hold an active TN EMT or Paramedic license can petition their local EMS to sponsor them as an EMR instructor.
- Students who sit for EMR certification MUST:
  - Be at least seventeen (17) years of age on the last day of class
  - Be able to read, write, and speak English, and
  - Have no documented history in the past three (3) years of habitual intoxication or personal misuse of any drugs or intoxicating liquors

## Industry Certification

In order to improve student success, it is strongly recommended that any student who plans to sit for an industry certification exam complete the foundational course AND a clinical internship in the content area prior to attempting the exam. In addition, Industry Certifications should only be offered with the program of study with which they are aligned.

- Examples:
  - Certified Pharmacy Technician: Pharmacological Science (C14H20) AND Clinical Internship (C14H11)

- Certified EKG Technician: Cardiovascular Services (C14H18) AND Clinical Internship (C14H11)
- Certified Medical Assistant: Medical Assisting (C14H10) AND Clinical Internship (C14H11)
- Certified Personal Trainer: Exercise Science (C14H22) AND Clinical Internship (C14H11)
- Certified Patient Care Technician: Nursing Education (C14H03) AND Clinical Internship (C14H11)
- Physical Therapist Aide: Rehabilitation Careers (C14H08) AND Clinical Internship (C14H11)
- Certified Dental Assistant: Dental Science (C14H21) AND Clinical Internship (C14H11)

Note: *Certified Nursing Assistant* and *Emergency Medical Responder* have specific regulations which are unique to each certification.

## Phlebotomy Liability Issues

The Tennessee Department of Health, the Tennessee Medical Laboratory Board and the Tennessee Department of Education recommend, at **NO TIME** should blood be drawn via venipuncture or skin puncture from live subjects in a high school or clinical setting by a student or an instructor.

- Students who plan to sit for the Certified Clinical Medical Assistant exam must have content knowledge about phlebotomy and capillary blood sampling and may practice venipuncture and skin puncture on practice mannequins. Students will not be required to perform those skills as part of their certification test.
- Students in dual-enrollment phlebotomy courses will practice venipuncture and skin puncture on practice mannequins until after high school graduation. Following graduation from high school, students will work with their postsecondary institution to arrange skill practice on live subjects to prepare for the skills portion of the Certified Phlebotomy Technician test.
- Following these guidelines protects schools and districts from liability due to the danger of transmission of blood borne pathogens to students and patients and inadvertent patient injury during venipuncture practice.

## Recommendations for Administration and Storage of HIPAA, Infection Control, and Safety Tests for Personal and District Liability

- All HIPAA, Infection Control, and Safety Tests should be kept for **seven years**. For more information see the [WBL Quick Reference-Health Science Clinical and Nursing Education](#) online document.
- Students who participate in any workplace activity including job shadowing, clinical internship, and/or Nursing Education courses should take and pass a test covering Universal Precautions and OSHA with 100% accuracy prior to entering the clinical area.
- It is recommended each year, students should be re-tested regardless of having passed the previous year's Universal Precautions and OSHA test at 100% accuracy.
- Other required training that must be completed before entering a healthcare facility includes:
  - Certification in Basic Life Support (BLS) Cardiopulmonary Resuscitation (CPR)
  - Basic competency in the following:
    - Basic First Aid
    - Body Mechanics

- o Standard Precaution Guidelines
- o Confidentiality/HIPAA