



# South Carolina Health Science Educators

Division of College and Career Readiness  
Office of Career and Technical Education  
Health Science Education  
November 2021

Angel W. Clark, MSN, RN



## My Roles

SCDE Health Science Education Associate

SC HOSA Director

PLTW – BMS – State Leader

NCHSE – State Leader

NCHSE – Executive Committee- Treasurer

SC Health Science Educators - Reporter

# CCIP Coded Programs Pathways

260102  
Biomedical  
Sciences (PLTW)

510999  
Emergency  
Medical Services

510000 Health  
Science

511600 Practical  
Nursing

310505 Sports  
Medicine

512208 Public  
Health

510406 Health  
Informatics AC  
(SREB) *Phased  
out*



# PERKINS V PERFORMANCE INDICATORS

1S1 Four-Year  
Graduation Rate

1S2 Extended  
Graduation Rate

2S1 Academic  
Proficiency in  
English Language  
Arts (ELA)

2S2 Academic  
Proficiency in  
Mathematics

2S3 Academic  
Proficiency in  
Science

4S1 Non-traditional  
Program Enrollment

5S1 Program Quality  
- Attained  
Recognized  
Credential\*

5S2 Program Quality  
- Attained  
Postsecondary  
Credits\*

5S3 Program Quality  
- Participated in  
Work Based  
Learning\*

5S4 Program Quality  
- Other\*

\* Only one of the listed Program quality indicators will be selected and used for federal reporting.

# What's New in Health Science?

## □ Updated Standards in the Health Science Pathway- HS1, 2, 3, Clinical Study

- Health Science 1 – Pre-requisite of Biology 1 has returned. (in grades 9-12 may be co-requisite) Successful completion of the new 8<sup>th</sup> grade health science course will allow students to bypass the pre-requisite of biology.
- Health Science 3 lost its number it is now HS Human Structure, Function, and Disease.
- Health Science 1 & 2 had titles added to their numbers.

## □ **Standards Reviewed July 2021**

- Medical Billing and Coding
- Sports Medicine 1, 2, 3
- Middle School Course – updated course 1 and added a course 2
- Medical Terminology
- Pharmacology for Medical Careers

[2020-21 Revised CTE Course Standards Field Review - South Carolina Department of Education - 11/8/21 12:19 PM \(sc.gov\)](#)



# What's New in Health Science?

## □ New Courses coming in 21-22 school year

➤ Public Health Pathway – three new courses with a third to be added

### 1. 5586-Foundations of Public Health

Pre-requisite – Health Science 1 or PLTW Principles of Biomedical Science

### 2. 5587- Advanced Principles of Public Health

Pre-requisite – Successful completion of foundations course -5586

### 3. 5588- Public Health Internship (WBL)

Pre-requisite – Successful completion of two PH courses  
(does not count in a three-unit completer path)

### 4. Course Code TBD – Public Health Capstone Course

(Out for public review 7/22 then added to course listing 1/23)

# What's New in Health Science?

## Courses being added as part of the completer path

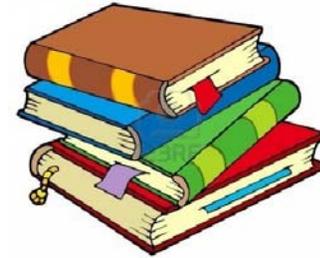
- **Sports Nutrition (5760)** Included in the Human Services Career Cluster – under the Family and Consumer Science Standards
  - This course may be used as unit 3 or unit 4 in a sports medicine completer path
  - The teacher of this course must be an athletic trainer
  
- **Introduction to Veterinary Science (5613)** Included in the Agriculture Career Cluster- under the Plant and Animal Standards
  - This course may be used as unit 3 or unit 4 in a health science pathway.
  - This course may **not** be used with SM, EMS or PLTW BMS as part of the completer path
  - Schools must have an agriculture program that offers this course. Only a teacher certified or approved through the agriculture cluster may teach this course.

# Instructional Materials

## Textbook Committees Met in June for:

### Clinical Study - supplemental textbooks for certifications:

- Electronic Health Record
- Patient Care Technician
- Phlebotomy
- EKG

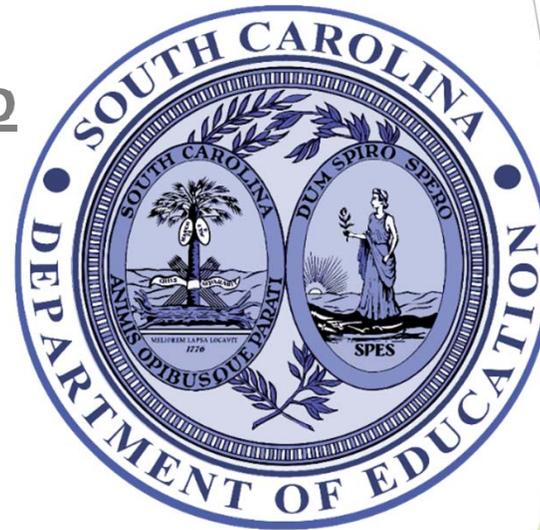


### Other textbook committees met for the courses below:

- Public Health Courses
- Pharmacy for Medical Careers

# CTE CONCENTRATOR

A CTE Concentrator is a student who has completed at least two required courses in a single career and technical education program or program of study.



# Concentrators

## Courses Required for each Pathway in the Health Science Cluster

- ▶ EMS Path – EMS 1 & EMS 2
- ▶ Health Science Path – HS 1 & HS 2
- ▶ PLTW Biomedical Science Path  
PBS & HBS
- ▶ Sports Medicine Path - SM 1 & SM 2
- ▶ Public Health – Foundations & Advanced

# CTE COMPLETER

The current definition of a Health Science completer is 3 or 4 units that are aligned in accordance with the program that the student is enrolled.

Many schools take advantage of the 3-unit completer but there are a good many students who earn 4 or more units.



## Completer... continued

Students who are double completers may not count the third unit in both completer paths.

Students who are completing in two paths need at least 6 units (not five.)

For example: HS 1,  
HS 2, HS 3

SM 1, SM 2, Med  
Term.

Not HS1, HS2, HS3,  
SM1, SM2



## 3 - Course Completer Pathways:

- ▶ Student must be a concentrator in one of the Health Science paths (Level 1 & 2 completed)
- ▶ For their 3<sup>rd</sup> course they choose level 3 of their concentrator path or one course from below.

### **3<sup>rd</sup> Unit Choices**

#### **For any pathway:**

- ▶ Medical Terminology
- ▶ Health Science 3 (Human Structure, Function & Disease)
- ▶ PLTW BMS – Human Body Systems
- ▶ AHS 102 or 104 Dual Credit Courses

#### **Only for specific pathways listed below:**

- ▶ Sports Nutrition – *Only for SM pathway*
- ▶ Introduction to Veterinary Science – *Only for HS pathway*

## *Sample* 3 Course Completer Pathways:

### Health Science:

1. HS1, HS2, HS3 (or Med Term)
2. HS1, HS2, Science A& P and HS Clinical Study

### Sports Medicine:

1. SM1, SM2, Med Term (or SM 3 or HS3)

### PLTW - BMS

1. PBS, HBS, MI
2. PBS, HBS, Med Term

### EMS

1. EMS1, EMS2, Med Term (or HS 3)

### Public Health

1. HS 1, PH Foundations, PH Advanced
2. PBS, PH Foundations, PH Advanced

## Something to note - Completers



Once a student is a completer in any health science pathway, they may sign up to take Health Science Clinical Study.



The only way a non-completer can sign up to take Health Science Clinical Study is by being a concentrator in any health science path plus taking science department A & P.



Being a completer or concentrator with A& P is a PRE-requisite to Health Science Clinical Study

## 4 course completers

- ▶ Must be a concentrator in one of the Health Science pathways.
- ▶ Must meet the 4-course credit by adding two more courses from any course in the Health Science cluster that the student **has met the pre-requisites to take.**



## *Sample* 4 course completers

1 unit in HS1, and 1 unit in HS2

*PLUS any other 2 units* in the HS Cluster that the student has met the pre-requisites.

SM1, SM2, HS1, HS2

HS1, HS2, PBS, HBS

EMS1, EMS2, SM1, HS1

PLTW – PBS, HBS, MI, BI

HS1, HS2, HS3, Clinical Study

SM1, SM2, SM3, Med Term

HS 1, PH Foundations, PH Advanced, PH WBL

Clinical Study will ONLY work in this scenario, if the student is a completer or is a concentrator that has completed a science A&P course. If so, the student may sign up for HS Clinical Study as their (3<sup>rd</sup>, or 3<sup>rd</sup> & 4<sup>th</sup> units).

# NCHSE ASSESSMENTS

## □ National Health Science Assessment (NHSA)

- Has changed names to National Health Science Certification (NHSC)
- Remote proctoring is available to completers who are virtual. The cost is \$4.00 per student.
- Contact Ivey Harrison at You Science.  
Ivey Harrison [ivey.harrison@youscience.com](mailto:ivey.harrison@youscience.com)

**A student only takes this one time** after being a three or four course completer if they are going no further – or after HS Clinical Study. Schools choice- just not both times. SCDE will only cover the cost for the post-test one time. We do not cover the pre-test.

# ASSESSMENTS

Submit test names to your administrator

Fall – October 1st

Spring – March 1st

Proctor ID Requests – no later than 3 weeks prior to test date.

[HS Program Assessment - Formstack](#)

Technical Skills Assessment page.

[Career and Technical Education Technical Skill Assessments - South Carolina Department of Education - 9/7/21 3:01 PM \(sc.gov\)](#)

NCHSE EOP Assessment info

[National Health Science Certificate - National Consortium for Health Science Education \(healthscienceconsortium.org\)](#)

# Student Certifications

## Credentials – may be found in the Student Reporting Guide

<https://ed.sc.gov/instruction/career-and-technical-education/performance-accountability/cte-data-collection-and-reporting/2021-22-srpg/>

- **Industry Recognized Credentials (IRC) or Industry Aligned Credentials (IAC)**

These are essentially the same thing, it just depends on the name Given or assigned by the SCDE

- **Stackable Credentials (SC)**

These credentials do not count as an IRC however they may be required as part of a course



# Student Certifications

## □ New Credentials added last school year

- 166 – Clinical Medical Assistant \* Recommended for IRC
- 266 - Physical Therapy Aide \* Recommended for IRC
- 265 - Personal Trainer \* Recommended for IRC
- 264 – Sports Nutrition (NFHS) – Stackable credential
- 263 – Sudden Cardiac Arrest (NFHS) – Stackable credential
- 392- 409 Precision Exams (total of 17 assessments) – Stackable credential
- 446 - Stop the Bleed – Stackable credential

# Catching Up on Credentials in Health Science

## Popular Credentials

- Nurse Aide (DHHS)
- Medical Assisting (NHA & AMCA)
- Patient Care Technician (NHA & AMCA)
- Pharmacy Technician (PassAssured, Kaduceus)
- Pharmacy Technician Testing (PTCB, ExCPT)
- EKG Technician (NHA & AMCA)
- Phlebotomist (NHA & AMCA)
- OSHA 10 Healthcare – (Career Safe)
- Direct Support Professional (SCDDSN)
- Emergency Medical Technician (SCDHEC)
- Basic Life Support (BLS) CPR (American Heart, Red Cross)

**ALL QUESTIONS ABOUT THESE CREDENTIALS SHOULD BE SENT TO THE  
VENDOR REPRESENTATIVE. The representative contact information on the  
SCDE website.**

## Stackable Credentials

**May be required as part of a course standard**

First Aid

HeartSaver CPR/AED

Community Emergency Response Team (CERT)

Heads Up: Concussion in Youth Sports

NFHS: Heat Illness Prevention

NFHS: Concussions in Sports

NFHS: Sudden Cardiac Arrest

NFHS: Nutrition

Community Emergency Response Team - CERT

Paid Feeding Assistant - PFA

# Catching Up On Student Certifications

## The Nurse Aide Certification

Who to get answers from?

### 1. Department of Health and Human Services

- Nurse aide instructor applications
- Facility requirements
- Federal Nurse Aide Bulletins
- Questions about what is allowed (facility types, skills/simulations, lab settings)
- General Questions

### 2. Pearson Vue

- Testing – including making appointments for written and skills portions
- Skills testing specific requirements

Pearson VUE currently requires CNA testing candidates to read and sign a Nurse Aide Testing Liability Waiver to be allowed to test.

Click [here](#) to view. If a candidate is under 18 years of age, the waiver must be signed by a parent or guardian.

If an instructor has questions and/or concern regarding this requirement, they may contact Pearson VUE at [VUEnurseaide@pearson.com](mailto:VUEnurseaide@pearson.com)

# DHHS – Nurse Aide- Questions

- ▶ SOUTH CAROLINA DEPARTMENT OF HEALTH AND HUMAN SERVICES  
<http://www.dhhs.state.sc.us>
- ▶ Department of Facility Services, 7th Floor
- ▶ PO Box 8206 Columbia, SC 29202
- ▶ Phone: 803-898-2590 Fax: 803-255-8209
- ▶ E-mail: [SCNAR@scdhhs.gov](mailto:SCNAR@scdhhs.gov)

# Catching Up On Credentials in Health Science

## The Nurse Aide Credential

The current nurse aide training program application can be found at the link below.

<https://home.pearsonvue.com/getattachment/937c726c-f14a-48bc-8ef1-5e9f034a487c/South%20Carolina%20Nurse%20Aide%20Training%20Program%20Packet-074118.aspx>

And the SC Nurse Aide Training Program Policies can be found at the link below.

<https://home.pearsonvue.com/getattachment/7c2c7937-13ae-41b4-9f00-9b74382a5cd2/South%20Carolina%20Nurse%20Aide%20Training%20Program%20Policies-074124.aspx>

# INDUSTRY RECOGNIZED CREDENTIALS

- ▶ A comprehensive listing of Industry Recognized Credentials/Certifications (approximately 365) are listed in the [Student Reporting Procedures Guide](#)
- ▶ The Education Oversight Committee (EOC) has approved a percentage of the comprehensive listing as appropriate College and Career Ready (CCR) (approximately 146) for accountability.

# What's New in Health Science?

## Skill Check Off

- Currently, for this past pandemic year, all skills were allowed to be simulated in the school lab, hospital lab or with virtual teacher instruction and return feedback. See HS CTE Guidelines. [CTE-Guidelines-for-Health-Science-10-12-20.pdf \(schosa.org\)](#)
- See resources on Health Science Page of the SC HOSA website. [Resources-for-HS-Teachers-2020.pdf \(schosa.org\)](#)
- Last year students were allowed to do CPR via virtual class if necessary. That is extended through this school year. Beginning all of 2022 we will be back to requiring face to face training. BLS skill check off should always be face to face.
- Temporary policy for Nurse Aide may be found here: [Coronavirus Disease 2019 \(COVID-19\) Temporary Policy Updates: Nurse Aide Training and Competency Evaluation Programs and Paid Feeding Assistant Programs | SC DHHS](#)

# Applied Educational Systems

## Best known to us as HealthCenter 21

Offers modules to support many of our credentialing programs

Including:

NHA, NOCTI, AMCA, NNAAP, and the NCHSE Assessment.

<https://www.aeseducation.com/certifications?hsCtaTracking=c3710ce4-8ebc-45ea-8709-dcf39078e8ca%7C6470f8c7-76de-411f-8e97-dcef86557b45#filter-1=health-science>

# Dual Enrollment in Health Science

Courses that have statewide approval for use in a completer pathway:

AHS 102 – Medical Terminology

AHS 104 – Medical Vocabulary and Anatomy

- There are schools with individual agreements, for other courses, that have been approved.
- A post secondary course must meet 75% of the health science course that it is aligning with to be considered.
- A special form must be submitted to have the dual enrollment course approved for use [Check list and Application \(sc.gov\)](#)
- Keep in mind for every dual credit course approved to use in the completer pathway, the school must also offer the health science state approved course for students who do not have a desire, or do not qualify, to take the dual credit course.

# Virtual School Courses



Health Science



Medical Terminology



Health Science 3  
(Human Structure and function)



## MIDDLE SCHOOL Courses

Introduction to Health Professions 2839 (7<sup>th</sup> or 8<sup>th</sup>)

Foundations of Healthcare 2791 (8<sup>th</sup> grade only)

### May be taught by:

- ▶ Middle School Health Teachers
- ▶ Middle School Science Teachers

### **AND**

- ▶ High School Health Science Teachers  
(with Proviso in effect)

# Health Science Teacher Certification

Process:

<https://ed.sc.gov/instruction/career-and-technical-education/programs-and-courses/career-clusters/health-science-education/teacher-certification-process/>

Required Credentials:

<https://ed.sc.gov/educators/certification/certification-forms/forms/required-credentials-for-professional-staff-members/>

# Professional Development/ Resources in Health Science

## **Consider joining SC HSE:**

- Access to a google drive packed with tons of teacher resources
- For this year 2021 – all members that join get free membership to the HSEA

## **NCHSE**

- Wednesday webinars
- PD Conference next October

# What's New in HOSA?



National HOSA Virtual On-Demand Learning

[On-Demand Learning Opportunities - HOSA](#)

[www.hosa.org](http://www.hosa.org)

# What's New in HOSA?



- December 7, 2021 – All Things HOSA- Webinar
- State Leadership Conference March 16 -18, 2022, Charleston, SC

[www.schosa.org](http://www.schosa.org)

# Resources

SCDE Health Science Webpage

<https://www.ed.sc.gov/instruction/career-and-technical-education/programs-and-courses/career-clusters/health-science-education/>

SC HOSA Health Science Page

<http://www.schosa.org/health-science/>

<https://scremotelearning.com/teachers/career-and-technical-education/>

[http://www.schosa.org/wp-content/uploads/2020/05/HealthSciencePPT\\_5-20-20.pptx](http://www.schosa.org/wp-content/uploads/2020/05/HealthSciencePPT_5-20-20.pptx)

NCHSE – Wednesday Webinars:

<https://www.healthscienceconsortium.org/webinars/>

SC HOSA

[www.schosa.org](http://www.schosa.org)

## RESOURCES

- [Career and Technical Education](#)
- [SC School Counseling and Career Guidance Model](#)
- [SC Work-Based Learning Resource Page](#)
- [SC Career Education Career Aisle](#)
- [SC Discus Job Career Resources](#)
- [Microburst Learning](#)
- [SCOIS](#)
- [SC Works Labor Market Data](#)

QUESTIONS?



South Carolina  
**Health Science  
Education**



**hosa** future  
health  
professionals  
SOUTH CAROLINA

Angel Clark, MSN, RN  
SCDE HS Education Associate  
SC HOSA Director/State Advisor  
1429 Senate Street Rm. 918-A  
Columbia, SC 29201  
Phone: (803) 734-0372  
Email: [aclark@ed.sc.gov](mailto:aclark@ed.sc.gov)



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