



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

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South Carolina
**Health Science
Education**

My Roles

Health Science Education Associate

SC HOSA Director

PLTW – BMS – State Leader

NCHSE – State Leader

NCHSE – Executive Committee - Treasurer



CIP Coded Programs

- 260102 Biomedical Sciences (PLTW)
- 510999 Emergency Medical Services
- 510000 Health Science
- 511600 Practical Nursing
- 310505 Sports Medicine
- 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)
- 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



What's New in Health Science?

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

- Public Health Pathway – two new courses with a third to be added

1. Foundations of Public Health – 5586

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

2. Advanced Principles of Public Health -5587

Pre-requisite – Successful completion of foundations course -5586

□ **Courses phased out this school year**

- Health Informatics Pathway (SREB)

What's New in Health Science?

Courses being added as part of the completer path

- **Sports Nutrition 2 (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:

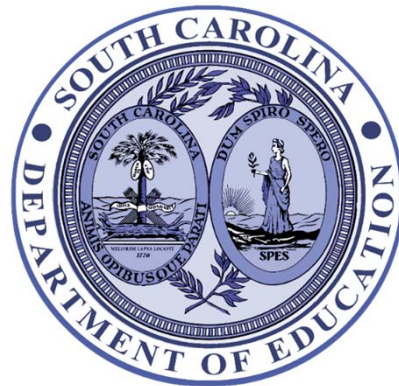
Public Health Courses

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

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.

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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 3rd course they choose level 3 of their concentrator path or one course from below.

3rd 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 2 – *Only for SM pathway*
- Introduction to Veterinary Science – *Only for HS pathway*

Sample 3 Course Completer Pathways: Most common

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)

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 the 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

Clinical Study will ONLY work in this scenario, if the student is a HS 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 (3rd, or 3rd & 4th units).

What's New in Health Science?

WHAT'S NEW IN ASSESSMENTS?

□ National Health Science Assessment (NHSA)

- Has changed names to National Health Science Credential (NHSC)
- Remote proctoring is available to completers who are virtual. (Virtual ONLY – not hybrid, not face to face) The cost is \$4.00 per student.
- Contact Ivey Harrison at You Science.
Ivey Harrison ivey.harrison@youscience.com

What's New in Health Science?

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

What's New in Health Science?

□ New Credentials added this past 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 Credentials in Health Science

The Nurse Aide Credential

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 VUNurseaide@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

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>

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 fall 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>

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.

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 1

Medical Terminology

Health Science 3
(Human Structure and Function)



MIDDLE SCHOOL Courses

Introduction to Health Professions (7th or 8th)

Foundations of Healthcare (8th 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 in Health Science

SC ACTE Health Science Educators Association

November 14th – 16th

Myrtle Beach

[Health Science – SC HOSA Future Health Professionals](#)



NCHSE Professional Development Conference

October 27th – 20th

Cincinnati, Ohio

[National Health Science Conference | National Consortium for Health Science Education \(healthscienceconsortium.org\)](#)

Professional Development/ Resources in Health Science

Consider joining SC HSE:

- Conference discounts
 - Opportunities for drawings that non-members can't participate in
 - Access to a google drive packed with tons of teacher resources
 - For this year 2021 – all members that join get free membership to the
 - NCHSE – HSEA – a national's teacher association
- Membership years:
- SCHSE – from the month you join for a year
 - HSEA – from July 1 – June 30th of the year



South Carolina
**Health Science
Educators**

Professional Development/ Resources in Health Science



The National Consortium of Health Science Educators (NCHSE)

[Home | National Consortium for Health Science Education \(healthscienceconsortium.org\)](https://healthscienceconsortium.org)

Offers many opportunities for professional development through webinars

All past webinars may be accessed on their website

**September 25, 2021 from 1:00 to 5:00 PM they will be offering:
*New Teacher Online Bootcamp***

Although not SC specific it should be very helpful to new teachers as well as experienced teachers

What's New in HOSA?

- New State Officers Elected
- Fall planning takes place in July
- Fall Leadership Conference



Fall Leadership Conference – SC HOSA Future Health Professionals

October 14th - Newberry College

Attendance will be limited

Masks will be required

Social distancing will take place

- Service Project is *Be the Match*

Looking forward to next spring in Charleston!

SC HOSA Website : www.schosa.org

What's New in HOSA?



National HOSA Virtual On-Demand Learning

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

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

NCHSE – Wednesday Webinars:

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

SC HOSA

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](#)

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