
2025 – 2026

PROGRAM GUIDE

HEALTH SCIENCE CLUSTER

AND MIDDLE SCHOOL



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Health Science Cluster Program Guide

The Health Science cluster provides students with essential knowledge and skills for pursuing careers in the following five pathways: Therapeutic Services, Diagnostic Services, Health Informatics, Support Services, and Biotechnology Research and Development. Rigorous and challenging content may include a variety of instructional strategies, work-based learning experiences, and simulation.

****Courses highlighted in yellow are shared with other clusters. See “Shared Courses” table on page 3 for additional details.**

Career Pathway Program	Health Science Program (Must teach three courses from this program list within two years)		
	The Health Science Program prepares students for employment in careers that involve planning, managing, and providing healthcare services through professions in the following categories: therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.		
Course Number	Career Pathway Program Courses	Career Readiness Indicator (CRI)	In Demand Occupations
14002G1001	Foundations of Health Science – Required Foundation Course/Health Education Substitute	<ul style="list-style-type: none"> • Alabama Certified Employee (ACE) • Ambulance Operator– Skills for Success • BACE – Biotechnology Aptitude and Competency Exam • BLS Instructor • Certified Billing and Coding Specialist (CBCS) • Certified Clinical Medical Assistant (CCMA) • Certified EKG Technician (CET) • Certified Electronic Health Records Specialist (CEHRS) • Certified Medical Administrative Assistant (CMAA) • Certified Nursing Assistant (CNA) • Certified Pharmacy Technician (CPhT) • Certified Patient Care Technician/Assistant (CPCTA) • Community Health Worker – Skills for Success • Elanco Veterinary Medical Applications Certification • Emergency Medical Dispatcher (EMD) • Lifeguard Certification (American Lifeguard Association or American Red Cross) • Mental Health Worker – Skills for Success • National Academy of Sports Medicine Certified Personal Trainer (NASM-CPT) • National Emergency Medical Responder (EMR) • National Emergency Medical Technician (EMT) • Nursing Support Technician-Certified • Public Safety Telecommunicator • Veterinarian Assistant – Skills for Success 	<ul style="list-style-type: none"> • Cardiovascular Technologists & Technicians • Clinical Laboratory Technologists & Technicians • Dental Assistants • Dental Hygienists • Diagnostic Medical Sonographers • Emergency Medical Technicians & Paramedics • Licensed Practical Nurses • Medical Assistants • Medical Equipment Preparers • Medical & Health Services Manager • Medical Record Specialists • Medical Secretaries & Administrative Assistants • Nurse Practitioners • Occupational Therapy Assistants • Ophthalmic Medical Technicians • Pharmacists • Pharmacy Technicians • Phlebotomists • Physical Therapists • Physical Therapy Assistants • Psychiatric Aides • Psychiatric Technicians • Radiologic Technologists • Registered Nurses • Respiratory Therapists • Speech-Language Pathologists • Surgical Technologists • Veterinarians • Veterinary Assistants & Laboratory Animal Caretakers • Veterinary Technologists & Technicians
14252G1010	Biotechnology I – Science credit eligible		
14252G1011	Biotechnology II – Science credit eligible		
14997G1010	Career Pathway Project in Health Science		
14999G1000	CTE Lab in Health Science		
14149G1000	Diagnostic Services		
14055G1010	Emergency Medical Services		
14055G1000	Emergency Services and Management		
15055G1000	Forensic Science and Crime Scene Investigation – Science credit eligible		
14298G1000	Health Science Internship – 1 credit option		
14298G2000	Health Science Internship – 2 credit option		
14299G1001	Human Body Structures and Functions – Science credit eligible		
18105G1012	Introduction to Veterinary Science		
14254G1010	Medical Mathematics – Math credit eligible		
14154G1000	Medical Terminology		
14051G2000	Nurse Aide Training		
14254G1015	Operating Room Essentials		
14051G1000	Patient Care Technician		
14152G1001	Pharmacy Technician		
17049G1000	Safety and Health Regulations		
14062G1010	Sports Medicine I		
14062G1011	Sports Medicine II		
14099G1000	Therapeutic Services		
18105G1022	Veterinary Science		

PLTW Biomedical Science Program			
Career Pathway Program	The Health Science Program prepares students for employment in careers that involve planning, managing, and providing healthcare services through professions in the following categories: therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.		
Course Number	Career Pathway Program Courses	Career Readiness Indicator (CRI)	In Demand Occupations
14255G1000	Biomedical Innovation	<ul style="list-style-type: none"> Alabama Certified Employee (ACE) Ambulance Operator– Skills for Success BACE – Biotechnology Aptitude and Competency Exam BLS Instructor Certified Billing and Coding Specialist (CBCS) Certified Clinical Medical Assistant (CCMA) Certified EKG Technician (CET) Certified Electronic Health Records Specialist (CEHRS) Certified Medical Administrative Assistant (CMAA) Certified Nursing Assistant (CNA) Certified Pharmacy Technician (CPhT) Certified Patient Care Technician/Assistant (CPCTA) Community Health Worker – Skills for Success Elanco Veterinary Medical Applications Certification Emergency Medical Dispatcher (EMD) Lifeguard Certification (American Lifeguard Association or American Red Cross) Mental Health Worker – Skills for Success National Academy of Sports Medicine Certified Personal Trainer (NASM-CPT) National Emergency Medical Responder (EMR) National Emergency Medical Technician (EMT) Nursing Support Technician-Certified Public Safety Telecommunicator Veterinarian Assistant – Skills for Success 	<ul style="list-style-type: none"> Cardiovascular Technologists & Technicians Clinical Laboratory Technologists & Technicians Dental Assistants Dental Hygienists Diagnostic Medical Sonographers Emergency Medical Technicians & Paramedics Licensed Practical Nurses Medical Assistants Medical Equipment Preparers Medical & Health Services Manager Medical Record Specialists Medical Secretaries & Administrative Assistants Nurse Practitioners Occupational Therapy Assistants Ophthalmic Medical Technicians Pharmacists Pharmacy Technicians Phlebotomists Physical Therapists Physical Therapy Assistants Psychiatric Aides Psychiatric Technicians Radiologic Technologists Registered Nurses Respiratory Therapists Speech-Language Pathologists Surgical Technologists Veterinarians Veterinary Assistants & Laboratory Animal Caretakers Veterinary Technologists & Technicians
14299G1002	Human Body Systems – Science credit eligible		
14299G1003	Medical Interventions		
14251G1001	PLTW Capstone – Biomedical Science		
14252G1002	Principles of Biomedical Sciences		

***NOTE:** This is a purchased curriculum. LEAs must contact **PLTW** for additional information prior to utilizing the course codes listed above with a PLTW suffix, as it does require submission of a signed copy of the Terms and Conditions, participation in mandatory training and payment of a participation fee to the provider.

Health Science Middle School Program			
Career Pathway Program	Middle grades course content includes practices that promote health and wellness, disease prevention, legal and medical ethics, communication, medical math, medical terminology, and technical skills related to healthcare. These courses are designed to give students a variety of opportunities to apply their learning and demonstrate relevant interpersonal and workforce skills.		
Course Number	Career Pathway Program Courses	Career Readiness Indicator (CRI)	In Demand Occupations
22151G0608	Career Explorations	N/A	*See List Above
14001G0638	Health Science Discovery		
14001G0618	Healthcare Career Exploration		
14001G0728	Medical Laboratory Science		

Project Lead the Way Middle School Program			
Career Pathway Program	Students play the role of real-life medical detectives as they collect and analyze medical data to diagnose disease. They solve medical mysteries through hands-on projects and labs, measure and interpret vital signs, examine nervous system structure and function, and investigate disease outbreaks.		
Course Number	Career Pathway Program Courses	Career Readiness Indicator (CRI)	In Demand Occupations
14001G0608	Medical Detectives	N/A	*See List Above

***NOTE:** This is a purchased curriculum. LEAs must contact **PLTW** for additional information prior to utilizing the course codes listed above with a PLTW suffix, as it does require submission of a signed copy of the Terms and Conditions, participation in mandatory training and payment of a participation fee to the provider.

2025-2026 Subject and Personnel Codes
Health Science Cluster and Health Science Middle School Program

Health Science Cluster Courses			
Course Number	Course Name	Course Number	Course Name
14255G1000	Biomedical Innovation (PLTW)	14299G1002	Human Body Systems (PLTW) – Science credit eligible
14252G1010	Biotechnology I – Science credit eligible	14254G1010	Medical Mathematics – Math credit eligible
14252G1011	Biotechnology II – Science credit eligible	14299G1003	Medical Interventions (PLTW)
14997G1010	Career Pathway Project in Health Science	14154G1000	Medical Terminology
14999G1000	CTE Lab in Health Science	14051G2000	Nurse Aide Training
14149G1000	Diagnostic Services	14254G1015	Operating Room Essentials
14055G1010	Emergency Medical Services	14051G1000	Patient Care Technician
14055G1000	Emergency Services and Management	14150012G1	Pharmacy Technician
15055G1000	Forensic Science and Crime Scene Investigation – Science credit eligible	14251G1001	PLTW Capstone– Biomedical Science
14002G1001	Foundations of Health Science – Required Foundation Course/Health Education Substitute	14252G1002	Principles of Biomedical Sciences (PLTW)
14298G1000	Health Science Internship – 1 credit option	14062G1010	Sports Medicine I
14298G2000	Health Science Internship – 2 credit option	14062G1011	Sports Medicine II
18105G1012	Introduction to Veterinary Science	14099G1000	Therapeutic Services
14299G1001	Human Body Structures and Functions – Science credit eligible	18105G1022	Veterinary Science

Health Science Middle School Program Courses	
Course Number	Course Name
22151G0608	Career Explorations
14001G0638	Health Science Discovery
14001G0618	Healthcare Career Exploration
14001G0608	Medical Detectives (PLTW)
14001G0728	Medical Laboratory Science

Shared Courses			
Course Number	Course Name	Cluster(s)	Required Year to Implement COS
22151G0608	Career Explorations	Agriculture, Food and Natural Resources Business, Management, and Administration	2021-2022
14055G1000	Emergency Services and Management	Law, Public Safety, Corrections and Security	2021-2022
15055G1000	Forensic Science and Crime Scene Investigation	Law, Public Safety, Corrections and Security	2021-2022
18105G1012	Introduction to Veterinary Science	Agriculture, Food and Natural Resources	2021-2022
17049G1000	Safety and Health Regulations	Architecture and Construction Manufacturing	2022-2023
18105G1022	Veterinary Science	Transportation, Distribution and Logistics Agriculture, Food and Natural Resources	2021-2022

College and Career Readiness Indicator Course Matrix

Program Name	Health Science	PLTW Biomedical Science
Foundation Course(s)	Foundations of Health Science – Required Foundation Course	Foundations of Health Science (not required for the PLTW Biomed program)
Concentrator Course(s)	Biomedical Innovation (PLTW) Biotechnology I Biotechnology II Diagnostic Services Emergency Medical Services Emergency Services and Management Forensic Science and Crime Scene Investigation Human Body Structures and Functions Human Body Systems (PLTW) Introduction to Veterinary Science Medical Interventions (PLTW) Medical Mathematics Medical Terminology Nurse Aide Training Operating Room Essentials Patient Care Technician Pharmacy Technician Principles of Biomedical Sciences (PLTW) Safety and Health Regulations Sports Medicine I Sports Medicine II Therapeutic Services Veterinary Science	Biomedical Innovation (PLTW) Human Body Systems (PLTW) Medical Interventions (PLTW) Principles of Biomedical Sciences (PLTW)
Capstone Course(s)	Career Pathway Project in Health Science CTE Lab in Health Science Health Science Internship PLTW Capstone – Biomedical Science	PLTW Capstone – Biomedical Science

To meet the CCR Indicator as a CTE completer, a student must earn three (3.0) credits with the grade of a “C” or higher in CTE courses that are part of an approved CTE program of study. Additional requirements are outlined in [Memorandum FY22-2065](#).

This matrix is intended for general guidance on the CCR completer status and is subject to change. For all CTE programming information, please refer to the CTE Cluster specific Program Guide. It contains a list of approved CTE programs, valid course numbers, required prerequisite courses, approved Career Readiness Indicators (CRIs) and in demand occupations.

***Courses are listed in alphabetical order, not in sequential order.**