

HEALTH SCIENCE & HOSA

Building a Pipeline of Future Health Professionals



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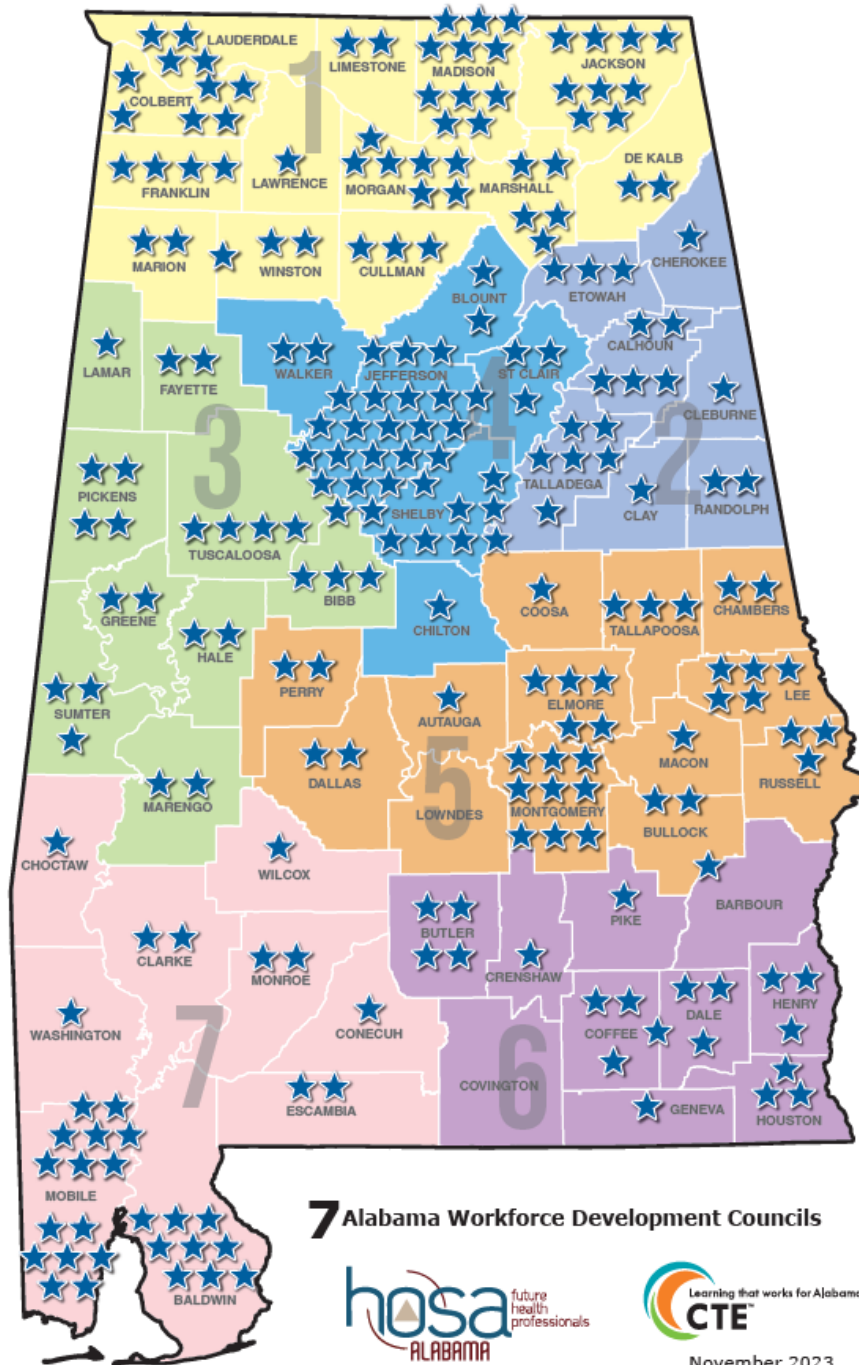
DATA/TRENDS

- Programs-382 Health Science & 22 PLTW
 - Map included
- Courses- explained on slide
- Enrollment-28,601
- CRI Obtainment- detailed on slide
- Positive Placement
- Middle School Expansion/New COS
- HOSA – 12,270 in 190 chapters
 - 4th largest charter internationally



★ Health Science Education Programs

Alabaster City	Thompson High School*	Fort Payne City	Fort Payne High School	MAEF Charter	Acceleration Day/Evening Academy
Albertville City	Thompson Middle School	Franklin County	Franklin County Career Tech Center	Marion County	Sweet Water High School
Alexander City	Albertville High School		Red Bay High School	Marion County	Hamilton High School
Anniston City	Benjamin Russell High School	Gadsden City	Gadsden City High School	Marshall County	Marion County High School
Arab City	Anniston High School	Greene County	Greene County Career Center	Midfield City	Marshall Technical School
Athens City	Arab High School		Greene County High School	Monroe County	Midfield High School
Attalla City	Athens High School	Gulf Shores City	Gulf Shores High School	Montgomery County	Monroe County Career/Tech Center
Autum City	Attalla High School	Guntersville City	Guntersville High School		Brewbaker Tech Magnet High*
Autauga County	Autauga County Technology Center	Hale County	Greensboro High School		Carver Senior High School
Baldwin County	Baldwin County High School		Hale County High School		Jefferson Davis High School
	Foley High School	Haleyville City	Haleyville High School		Lanier Senior High School
	North Baldwin Center For Tech	Hartselle City	Hartselle High School		Lee High School
	South Baldwin Center For Tech		Hartselle Junior High School	Morgan County	Montgomery Prep for Career Tech
	Spanish Fort High School	Henry County	Abbeville High School		Park Crossing High School
Bibb County	Bibb County Career Academy		Headland High School	Muscle Shoals City	Morgan County Schools Tech Park
	Bibb County High School	Hoover City	Headland Middle School		Muscle Shoals Career Academy
	West Blocton High School		Headland High School	Opelika City	Opelika High School
Birmingham City	BCS Virtual Academy of Learning		Riverchase Career Center	Oxford City	Oxford High School*
	George W. Carver High School	Houston County	Houston County Vocational Center	Ozark City	Carroll High School
	Huffman High School-Magnet	Huntsville City	Columbia High School	Pelham City	Pelham High School*
	Jackson-Olin High School		Huntsville High School	Pell City	Pell City High School*
	Parker High School		Jemison High School	Perry County	Francis Marion School
Blount County	Blount County Career Tech Center		New Century Tech High School		Robert C. Halcik High School
Boaz City	Boaz High School		Virgil Grissom High School	Phenix City	Central Freshman Academy
Bullock County	Bullock County Career Tech Center	Jackson County	Epruett Center Of Technology		Central High School
	Bullock County High School		North Jackson High School	Pickens County	Altoeville High School*
Butler County	Butler County Vocational School		North Sand Mountain School		Gordo High School*
	Georgiana School		Pigгах High School		Ladaw Technical Center*
	Greenville High School		Section High School	Piedmont City	Pickens County High School*
	McKenzie High School		Skyline High School		Piedmont High School
Calhoun County	Calhoun County Career Tech Center		Woodville High School	Pike County	Troy-Pike Center For Technology
Chambers County	Cherokee Co. Career & Tech Center	Jacksonville City	Jacksonville High School	Pike Road City	Pike Road High School
Chickasaw City	Alabama Destinations Career Acad		Jasper High School		Pike Road Jr High School
Chilton County	W A Lecroy Career/Technical Center	Jefferson County	Center Point High School	Randolph County	Randolph-Roanoke Career Tech Ctr
Chocław County	Chocław County High School		Clay-Chalkville High School*	Roanoke City	Randolph-Roanoke Career Tech Ctr
Clarke County	Jackson High School		Comer High School	Russell County	Russell County High School
Clay County	Central High School of Clay County		Futtsdowle High School*	Russellville City	Russellville City Career Tech Center
Cleburne County	Cleburne Co. Career Tech School		Hueytown High School		Russellville High School
Colbert County	Colbert Heights High School		McAdory High School*	Saratland City	Saratland High School
Conecuh County	Hillcrest High School		Minor High School	Satsuma City	Satsuma High School
Coosa County	Central High School		Mortimer Jordan High School	Scottsboro City	Scottsboro High School
Crenshaw County	Branley High School		Pinson Valley High School		Scottsboro Junior High School*
	Crenshaw County Career Academy		Pleasant Grove High School	Seima City	Seima High School
	Highland Home School		Shades Valley High School	Sheffield City	Sheffield High School
	Luveme High School	Lamar County	Lamar County School of Tech	Shelby County	Calera High
Cullman City	Cullman High School		Lanett Senior High School		Career Technical Education Center
Cullman County	Cullman Area Technology Academy	Lanett City	Allen Thornton Career Tech Center		Chelsea High School
Dale County	Arlton School	Lauderdale County	Central High School	St Clair County	Eden Area Technical Center
	Dale County High School		Lawrence Co. Career Tech Center		Margaret Elementary
	George W Long High School	Lawrence County	Beauregard High School	Sumter County	Bell-Brown Career Technical Center
Dallas County	Dallas County Career Tech Center		Beulah High School		Sumter Central High School
Decatur City	Austin High School	Leeds City	Leeds High School	Sylacauga City	Nichols-Lawson Middle School
	Austin Junior High School	Limestone County	Limestone County Vocational Tech		Sylacauga High School
	Career Technical Center	Macon County	Macon County Area Voc School	Talladega City	Talladega High School
	Decatur High School	Madison City	Bob Jones High School*	Talladega County	Childersburg High School
DeKalb County	DeKalb Technical Center		James Clemens High School*		Lincoln High School
Demopolis City	Demopolis High School		Buckhorn High School*	Tallapoosa County	Edward Bell Career Tech Center
Dothan City	Carver 9th Grade Academy	Madison County	Hazel Green High School	Tallapoosa City	Tallapoosa High School
	Dotlan Technology Center*		Madison Co. Career Tech Center	Thomasville City	Thomasville High School
Elba City	Elba High School		Sparkman High School	Trussville City	Hewitt-Trussville High School*
Elmore County	Elmore County High School		Alma Bryant High School	Tuscaloosa City	Tuscaloosa Career Tech Academy
	Elmore County Technical Center	Mobile County	Baker High School		Brookwood High School
	Holtville High School		Ben C Rain High School		Hillcrest High School
Enterprise City	Enterprise Career and Tech Center		Chronicle Center for Advanced Tech	Tusculumbia City	Tuscaloosa County High School
Escambia County	Escambia County High School		George H Bryant Voc-Ag Center	University Charter	Destler Career Technical Center
	Escambia-Stewart Career Tech Ctr		John L. Leflore Magnet School	University Charter - Secondary	University Charter - Secondary
	Career Technical Center		Lille B Williamson High School	Vestavia Hills City	Vestavia Hills High School
Eufaula City	Eufaula High School*		Mary G Montgomery High School*	Walker County	Walker County Center of Tech
Fairfield City	Fairfield High Preparatory School		Mathe T Blount High School	Washington County	Washington Co. Career Tech Center
Fayette County	Fayette County High School		Theodore High School	Wilcox County	Wilcox Central High School
Florence City	Florence Freshman Center		TL Faulmer School	Winfield City	Winfield High School
	Florence High School			Winston County	Winston County Technical Center



7 Alabama Workforce Development Councils



November 2023

*Project Lead the Way School

Health Science Middle School Program Courses

The Health Science Middle School Program instructional content is designed to allow students to explore careers, terminology, basic skills, and technologies associated with each pathway in the Health Science career cluster. Knowledge and skills are reinforced and enhanced through participation in HOSA – Future Health Professionals and project-based learning opportunities that are age and grade appropriate.

Course Number	Course Name
22151G0608	Career Explorations
14001G0635	Health Explorations (35 instructional hour course) (Content Standards 1-4)
14001G0670	Health Explorations (70 instructional hour course) (Content Standards 1-6)
14001G0640	Health Explorations (140 instructional hour course) (All Content Standards)
14002G0670	Introduction to Careers in Healthcare (70 instructional hour course) (Content Standards 1-6)
14002G0608	Introduction to Careers in Healthcare (140 instructional hour course) (All Content Standards)
14001G0608	Medical Detectives (PLTW)



Career Pathway Program Courses

Foundations of Health Science - Required prerequisite course/Health Education substitute

Advanced Health Seminar
CTE Lab in Health Science
Dental Assisting
Diagnostic Services
Emergency Services and Management
Exercise Prescription Physiology
Family Wellness (1/2 credit) – Health Education substitute
Forensic Science and Crime Scene Investigation - Science credit eligible
Health Informatics
Health Promotion and Wellness (1/2 credit)
Health Science Internship*, 1 credit option (Content Standards 1, 3, 4, 5, 6, and 9), 11 th or 12 th grade
Health Science Internship*, 2 credit option (Content Standards 1-11). 11 th or 12 th
Human Body Structures and Functions – Science credit eligible
Introduction to Biotechnology -Science credit eligible
Introduction to Pharmacy
Introduction to Veterinary Sciences
Kinesiology and Biomechanics
Medical Coding
Medical Terminology
Nurse Aide Training (11 th or 12 th grade only)
Nutrition in Healthcare
Operating Room Foundations
Orientation to Health Science
Patient Care Technician
Pharmacy Technician
Safety and Health Regulations
Senior Career Pathway Project- Health Science
Sports Medicine Advanced (11 th or 12 th grade)
Sports Medicine Fundamentals
Sports Medicine Intermediate
Support Services
Therapeutic Services
Veterinary Science

Career Readiness Indicator (CRI)

- BACE – Biotechnician Assistant Credentialing 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 (CPCT)
- Elanco Veterinary Medical Applications Certification
- Emergency Medical Dispatcher (EMD)
- Lifeguard Certification (American Lifeguard Association or American Red Cross)
- National Emergency Medical Responder (EMR)
- National Emergency Medical Technician (EMT)
- Public Safety Telecommunicator

CRI Obtainment

2022-2023

Health Science Cluster		Credentials Earned
94	BLS Instructor with Healthcare Provider	145
96	Certified Patient Care Technician (CPCT)	824
97	Certified Nursing Assistant (CNA)	625
99	Certified Medical Administrative Assistant (CMAA)	15
100	Certified EKG Technician (CET)	130
101	Certified Pharmacy Technician (CPhT)	58
102	National Emergency Medical Responder (EMR)	40
103	Lifeguard Certification	68
104	National Emergency Medical Technician (EMT)	8
205	Certified Clinical Medical Assistant (CCMA)	120
225	Alabama Fire College Public Safety Telecommunicato	6
244	Elanco Veterinary Medical Applications Certificati	5

New Course of Study from the [2024-25 Program Guide](#) because teachers can pilot new courses then but they are required for 2025-2026:

Revised 1/01/2024

Health Science Program (NEW 2025-2026) (Must teach three courses from this program list within two years)			
The Health Science Program instructional content incorporates project- and problem-based healthcare practices and procedures to demonstrate knowledge and skills fundamental to a variety of healthcare careers.			
Course Number	Career Pathway Program Courses	Career Readiness Indicator (CRI)	In Demand Occupations
TBD	Foundations of Health Science – Required prerequisite course	<ul style="list-style-type: none"> • BACE – Biotechnician Assistant Credentialing Exam • BLS Instructor • Certified Billing and Coding Specialist (CBCS) • Certified Clinical Medical Assistant (CCMA) • Certified EKG Technician (CET) • Certified Electronic Health Records Specialist (CEHS) • Certified Medical Administrative Assistant (CMAA) • Certified Nursing Assistant (CNA) • Certified Pharmacy Technician (CPhT) • Certified Patient Care Technician (CPCT) • Elanco Veterinary Medical Applications Certification • Emergency Medical Dispatcher (EMD) • Lifeguard Certification (American Lifeguard Association or American Red Cross) • National Emergency Medical Responder (EMR) • National Emergency Medical Technician (EMT) • Public Safety Telecommunicator 	<ul style="list-style-type: none"> • Clinical Laboratory Technologists & Technicians • Dental Assistants • Dental Hygienists • Diagnostic Medical Sonographers • Licensed Practical Nurses • Medical Assistants • Medical Equipment Preparers • Medical & Health Services Manager • Medical Secretaries • Nursing Assistants • Nurse Anesthetists • Nurse Practitioner • Occupational Therapists • Occupational Therapy Assistant • Ophthalmic Medical Technician • Opticians, Dispensing • Pharmacists • Pharmacy Technicians • Phlebotomists • Physical Therapists • Physical Therapy Assistants • Psychiatric Technicians • Radiologic Technologists • Registered Nurses • Respiratory Therapists • Speech-Language Pathologists • Surgical Technologists
TBD	Biotechnology I		
TBD	Biotechnology II		
TBD	Career Pathway Project in Health Science		
TBD	CTE Lab in Health Science		
TBD	Diagnostic Services		
TBD	Emergency Medical Services		
14055G1000	Emergency Services and Management		
TBD	Family Wellness		
15055G1000	Forensic Science and Crime Scene Investigation – Science Credit Eligible		
TBD	Health Science Internship – 1 credit option		
TBD	Health Science Internship – 2 credit option		
TBD	Human Body Structures and Functions		
18105G1012	Introduction to Veterinary Science		
TBD	Medical Mathematics		
TBD	Medical Terminology		
TBD	Nurse Aide Training		
TBD	Operating Room Essentials		
TBD	Patient Care Technician		
TBD	Pharmacy Technician		
17049G1000	Safety and Health Regulations		
TBD	Sports Medicine I		
TBD	Sports Medicine II		
TBD	Therapeutic Services		
18105G1022	Veterinary Science		



Health Science Middle School Program Courses (NEW 2025-2026)	
Course Number	Course Name
22151G0608	Career Explorations
TBD	Health Science Discovery
TBD	Healthcare Career Exploration
TBD	Medical Laboratory Science