



Health Science/HOSA Data

From our [Program Guide](#) Courses/Credentials Offered:

Revised 11/8/2023

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.**

Health Science Program			
(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. Knowledge and skills are reinforced and enhanced through co-curricular activities and participation in HOSA – Future Health Professionals and work-based learning opportunities that are age and grade appropriate.			
Course Number	Career Pathway Program Courses	Career Readiness Indicator (CRI)	In Demand Occupations
14002G1001	Foundations of Health Science - Required prerequisite course/Health Education substitute	<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 (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 	<ul style="list-style-type: none"> • Clinical Laboratory Technologists & Technicians • Dental Hygienists • Diagnostic Medical Sonographers • Licensed Practical Nurses • Medical Assistants • Medical Equipment Preparers • Medical & Health Services Manager • Medical Secretaries • Nursing Assistants • Nurse Anesthetists • Nurse Practitioners • Occupational Therapy Assistants • Ophthalmic Medical Technicians • Pharmacists • Pharmacy Technicians • Phlebotomists • Physical Therapists • Physical Therapy Assistants • Psychiatric Technicians • Radiologic Technologists • Registered Nurses • Respiratory Therapists • Speech-Language Pathologists • Surgical Technologists • Veterinary Assistants & Laboratory Animal Caretakers
14297G1000	Advanced Health Seminar		
14999G1000	CTE Lab in Health Science		
14054G1000	Dental Assisting		
14149G1000	Diagnostic Services		
14055G1000	Emergency Services and Management		
14062G1005	Exercise Prescription Physiology		
19259G0500	Family Wellness (1/2 credit) – Health Education substitute		
15055G1000	Forensic Science and Crime Scene Investigation - Science credit eligible		
14157G1000	Health Informatics		
14251G0500	Health Promotion and Wellness (1/2 credit)		
14298G1000	Health Science Internship*, 1 credit option (Content Standards 1, 3, 4, 5, 6, and 9), 11 th or 12 th grade		
14298G2000	Health Science Internship*, 2 credit option (Content Standards 1-11), 11 th or 12 th grade		
14299G1001	Human Body Structures and Functions – Science credit eligible		
14252G1001	Introduction to Biotechnology -Science credit eligible		
14152G1000	Introduction to Pharmacy		
18105G1012	Introduction to Veterinary Sciences		
14062G1004	Kinesiology and Biomechanics		
14156G1000	Medical Coding		
14154G1000	Medical Terminology		
14051G2000	Nurse Aide Training (11 th or 12 th grade only)		
14254G1000	Nutrition in Healthcare		
14056G1000	Operating Room Foundations		
14002G1002	Orientation to Health Science		
14051G1000	Patient Care Technician		
14152G1001	Pharmacy Technician		
17049G1000	Safety and Health Regulations		
14997G1000	Senior Career Pathway Project- Health Science		
14062G1002	Sports Medicine Advanced (11 th or 12 th grade)		
14062G1003	Sports Medicine Fundamentals		
14062G1001	Sports Medicine Intermediate		
14202G1000	Support Services		
14099G1000	Therapeutic Services		
18105G1022	Veterinary Science		

* Successful completion of one credit (minimum) in Health Science coursework is required prior to placement of a student in a clinical/internship. A program receiving a waiver for the Foundations of Health Science prerequisite is **not** exempt from the requirement. Please refer to the Internship manual for forms and contracts to be used with LEA board approval.

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)

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

Career Pathway Program	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 (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 	<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

Health Science Programs (2022-2023)- [MAP of Programs](#)

Health Science Program offered at 382 schools

Project Lead the Way - Biomedical Sciences offered at 22 schools

Enrollment (2022-2023)

26,940 Enrolled in Health Science Program Courses

1,661 Enrolled in Project Lead the Way - Biomedical Sciences Program Courses

28,601 Enrolled in Health Science Cluster Courses

Students (2022-2023)

21,879 Unique Students in Health Science Program Courses

1,515 Unique Students in Project Lead the Way - Biomedical Sciences Program Courses

23,079 Unique Students in Health Science Cluster Courses

Positive Placement (2021-2022)

3,004 of 3,205 for Health Science (93.73%)

134 of 139 for Project Lead the Way - Biomedical Sciences (96.40%)

3,138 of 3,344 for All Health Science Programs (93.84%)

CRI obtainment from 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

HOSA Membership : Learn more at <https://alabamahosa.org/>

12,270 members from 190 chapters throughout the state as of Jan 20,2024.

AL HOSA is the 4th largest charter in the International HOSA organization.

Led by state officer team, AL HOSA Executive Committee, & Advisory Board

**HOSA-Future Health Professionals—2023-2024 Membership Year
January 5, 2024 Report**

Rank	HOSA Affiliate	12-6-2023 Membership	1-5-2024 Membership	Difference	% Change
1	Texas HOSA	37,449	40,022	2,573	7%
2	Florida HOSA	14,477	16,813	2,336	16%
3	Georgia HOSA	14,386	15,997	1,611	11%
4	Alabama HOSA	11,865	12,153	288	2%
5	California HOSA	7,893	11,611	3,718	47%
6	Tennessee HOSA	9,821	10,590	769	8%
7	Arizona HOSA	10,706	10,338	-368	-3%
8	Ohio HOSA	7,806	9,166	1,360	17%
9	Kentucky HOSA	6,169	7,629	1,460	24%
10	North Carolina HOSA	6,812	7,321	509	7%
11	Michigan HOSA	5,849	6,894	1,045	18%
12	Oklahoma HOSA	5,842	6,039	197	3%
13	New Jersey HOSA	4,709	5,851	1,142	24%
14	Canada HOSA	3,137	4,476	1,339	43%
15	Mississippi HOSA	3,712	4,086	374	10%
16	South Carolina HOSA	3,669	3,809	140	4%
17	Pennsylvania HOSA	3,514	3,728	214	6%
18	Wisconsin HOSA	2,840	3,594	754	27%
19	Virginia HOSA	3,098	3,583	485	16%
20	Nevada HOSA	2,357	3,542	1,185	50%
21	Missouri HOSA	3,108	3,239	131	4%
22	Washington HOSA	2,972	3,145	173	6%
23	Illinois HOSA	2,869	3,051	182	6%
24	Colorado HOSA	2,606	3,012	406	16%
25	Arkansas HOSA	2,106	2,739	633	30%
26	Puerto Rico HOSA	1,596	2,496	900	56%
27	Indiana HOSA	2,070	2,284	214	10%
28	Utah HOSA	1,700	1,787	87	5%
29	Hawaii HOSA	1,478	1,462	-16	-1%
30	Minnesota HOSA	1,133	1,423	290	26%
31	New Mexico HOSA	2,419	1,191	-1,228	-51%
32	Nebraska HOSA	906	1,186	280	31%
33	Louisiana HOSA	889	1,132	243	27%
34	Kansas HOSA	929	1,072	143	15%
35	Oregon HOSA	724	1,009	285	39%
36	Idaho HOSA	834	976	142	17%
37	South Dakota HOSA	922	941	19	2%
38	Delaware HOSA	1,308	940	-368	-28%
39	Maryland HOSA	749	879	130	17%
40	New York HOSA	499	771	272	55%

41	West Virginia HOSA	616	745	129	21%
42	American Samoa HOSA	295	632	337	114%
43	North Dakota HOSA	524	626	102	19%
44	Montana HOSA	523	541	18	3%
45	New Hampshire HOSA	466	495	29	6%

Rank	HOSA Affiliate	12-6-2023 Membership	1-5-2024 Membership	Difference	% Change
46	Iowa HOSA	730	475	-255	-35%
47	Connecticut HOSA	390	446	56	14%
48	District of Columbia HOSA	157	419	262	167%
49	Vermont HOSA	198	220	22	11%
50	Rhode Island HOSA	147	181	34	23%
51	Massachusetts HOSA	182	173	-9	-5%
52	Alaska HOSA	146	160	14	10%
53	Trinidad & Tobago HOSA	26	29	3	12%
54	Malaysia HOSA	8	14	6	75%
55	Tawain HOSA	0	9	9	100%
56	Guatemala HOSA	14	9	-5	-36%
57	Italy HOSA	6	6	0	0
58	China HOSA	NA	NA	NA	NA
59	Germany HOSA	22	0	-22	-100%
60	Korea HOSA	1	0	-1	-100%

NA=Not Available

	HOSA Grand Total	202,379	227,163	24,784	12%
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