

HOSA-PLTW CURRICULUM CROSSWALK



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Introduction

HOSA–Future Health Professionals is the largest student organization operating in America’s high schools for young people enrolled in health science and biomedical science programs and those interested in pursuing careers in health professions. HOSA–Future Health Professionals works closely with local and state leaders to build a pipeline to attract qualified students to the health industry. HOSA’s purpose is to develop leadership and technical skill competencies through a program of motivation, awareness and recognition, which is an integral part of the instructional program. HOSA–Future Health Professionals, a student-led organization provides opportunities for students to develop, practice and refine their academic, technical, leadership, and teamwork skills to achieve seamless transition from education to careers.

Project Lead The Way (PLTW) Biomedical Science (BMS) Program is a sequence of high school courses, aligned with appropriate national learning standards, which follows a proven hands-on, real-world problem-solving approach to learning. Students explore concepts of human medicine and are introduced to topics such as physiology, genetics, microbiology and public health. Through activities, like dissecting a heart, students examine processes, structures and interactions of the human body – often playing roles of biomedical professionals. Students explore prevention, diagnosis and treatment of disease, work collaboratively to investigate and design innovative solutions to health challenges such as fighting cancer with nanotechnology.

Throughout the BMS program, students acquire strong teamwork and communication practices, and develop organizational, critical-thinking, and problem-solving skills. Along the way students investigate a variety of careers in biomedical science. These courses complement traditional science and health science courses and can serve as the foundation for STEM-centered or specialized academies. The program is designed to prepare students to pursue postsecondary education and careers in biomedical science and health professions.

Educators value strategies to enhance and improve student learning and achievement. The HOSA Competitive Events Program is designed to provide a system for recognizing the competencies developed by members through health science and/or biomedical science classroom instruction, related job training and HOSA related activities. Professionals from the health community, appropriate to each event, evaluate individual members and teams, according to set standards of performance.

The HOSA Competitive Events Program provides a constantly expanding and improving series of healthcare related competitive events. Competition within a state is held in the spring as a means of identifying those members eligible for competition at the HOSA International Leadership Conference. Imagine the pride members feel when their names are called and they stand on stage waiting to receive a medallion as a first, second or third place event winner.

Members participate in state and international conferences and meet HOSA members and health professionals from across the state and nation and recently from other nations. Members who participate in the competitive events program are immediately recognized as professionals in training interested in pursuing careers in the health professions. The real benefit of the competitive events program is realized when students prepare for competition. Members gain confidence in their abilities when they improve their skills in preparation for competition and can transfer this learning to other settings.

HOSA's competitive events are aligned to the National Health Science Standards, and helps students graduate career and college ready.

Events are offered in six categories:

- Health Science
- Health Professions
- Emergency Preparedness
- Leadership
- Teamwork
- Recognition

In the listing of events by category, there are four very special competitive events designated by an asterisk (*) for those classified as special needs students with individualized education plans.

HOSA and PLTW are vested in a national partnership to provide a variety of unique strategies to enhance student engagement and learning. This resource provides a customized crosswalk of the PLTW Biomedical Science courses to the HOSA Competitive Events Program. Each "X" in the following crosswalk indicates a connection between content in a particular unit of a PLTW course and indicates an opportunity to include and reinforce knowledge and skills needed for successful preparation for specific HOSA competitive events.

Finally, a crosswalk is provided of the HOSA Competitive Events and the Common Core Standards. In addition, the PLTW Standards and Objectives Alignment Tool, a detailed resource outlining connections between all PLTW courses and specific standards and objectives can be found at <http://alignment.pltw.org/>. As Common Core State Standards have become widely accepted, interest in how PLTW connects to these standards has increased. PLTW has taken this opportunity to demonstrate standards alignment. The dynamic interface allows users to view standards connected to a course, unit, or lesson.

HOSA–Project Lead The Way Crosswalks

Project Lead The Way	Principles of Biomedical Science			
HOSA Competitive Events	Unit 1	Unit 2	Unit 3	Unit 4
Health Science				
Behavioral Health	X	X		
Cultural Diversity & Disparities		X		
Dental Terminology		X		
Health Informatics		X	X	X
Human Growth and Development		X		
Medical Law and Ethics	X	X		X
Medical Math	X	X		X
Medical Reading	X	X		
Medical Spelling	X	X	X	
Medical Terminology	X	X	X	
Nutrition	X	X	X	
Pathophysiology	X	X	X	X
Pharmacology	X	X		
Health Professions				
Biomedical Laboratory Science		X		
Clinical Nursing		X	X	
Clinical Specialty		X		X
Dental Science		X		
Family Medicine Physician		X	X	X
Home Health Aide		X		
Medical Assisting		X		
Nursing Assisting		X	X	
Personal Care*		X		
Pharmacy Science		X	X	
Physical Therapy		X		
Sports Medicine		X		
Emergency Preparedness				
CERT Skills		X	X	
CPR/First Aid		X	X	
EMT		X	X	
Epidemiology		X	X	
Life Support Skills*		X	X	
MRC Partnership			X	
Public Health			X	

* Student must be classified under the provision of the 2004 reauthorized *Individuals with Disabilities Education Act (IDEA)* to participate.

Project Lead The Way				
HOSA Competitive Events	Unit 1	Unit 2	Unit 3	Unit 4
Leadership				
Extemporaneous Writing		X		
Health Career Photography		X		
Healthy Lifestyle				
Interviewing Skills*				
Job Seeking Skills				
Prepared Speaking		X		
Research Poster				
Researched Persuasive Writing and Speaking		X		
Speaking Skills*		X		
Teamwork				
Biomedical Debate				X
Community Awareness				
Creative Problem Solving				X
Forensic Science	X			
Health Career Display		X		
Health Education		X		
HOSA Bowl				
Medical Innovation				X
Parliamentary Procedure				
Public Service Announcement				
Recognition				
Barbara James Service Award				
Health Care Issues Exam				
HOSA Happenings				
HOSA Service Project				
Outstanding HOSA Achievement				
Outstanding HOSA Leader				

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Project Lead The Way		Human Body Systems				
HOSA Competitive Events	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
Health Science						
Behavioral Health		X	X	X		X
Cultural Diversity & Disparities						
Dental Terminology	X					
Health Informatics						
Human Growth and Development	X					X
Medical Law and Ethics	X					
Medical Math	X	X	X	X	X	X
Medical Reading	X	X	X	X	X	X
Medical Spelling	X	X	X	X	X	X
Medical Terminology	X	X	X	X	X	X
Nutrition			X	X	X	X
Pathophysiology		X	X	X	X	X
Pharmacology		X	X	X	X	X
Health Professions						
Family Medicine Physician						
Biomedical Laboratory Science	X	X	X	X	X	X
Clinical Nursing						
Clinical Specialty	X	X	X	X	X	X
Dental Science						
Family Medicine Physician	X	X	X	X	X	X
Home Health Aide						
Medical Assisting		X			X	
Nursing Assisting				X		
Personal Care*				X		
Pharmacy Science		X	X	X	X	X
Physical Therapy				X		
Sports Medicine				X		
Emergency Preparedness						
CERT Skills						
CPR/First Aid						
EMT						
Epidemiology					X	
Life Support Skills*						
MRC Partnership						
Public Health		X		X	X	

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Project Lead The Way		Human Body Systems				
HOSA Competitive Events	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
Leadership						
Extemporaneous Writing	X	X	X	X	X	X
Health Career Photography	X	X	X	X	X	X
Healthy Lifestyle		X	X	X	X	X
Interviewing Skills*	X	X	X	X	X	X
Job Seeking Skills	X	X	X	X	X	X
Prepared Speaking	X	X	X	X	X	X
Research Poster						
Researched Persuasive Writing and Speaking						
Speaking Skills*	X	X	X	X	X	X
Teamwork						
Biomedical Debate			X			
Community Awareness			X	X		X
Creative Problem Solving	X	X	X	X	X	X
Forensic Science	X					
Health Career Display	X	X	X	X	X	X
Health Education		X		X	X	
HOSA Bowl	X	X	X	X	X	X
Medical Innovation		X	X			
Parliamentary Procedure						
Public Service Announcement			X	X		
Recognition						
Barbara James Service Award						
Health Care Issues Exam	X	X	X	X	X	X
HOSA Happenings						
HOSA Service Project						
Outstanding HOSA Achievement						
Outstanding HOSA Leader						

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Project Lead The Way		Medical Interventions			
HOSA Competitive Events	Unit 1	Unit 2	Unit 3	Unit 4	
Health Science					
Behavioral Health			X		
Cultural Diversity & Disparities		X			
Dental Terminology	X			X	
Health Informatics					
Human Growth and Development		X			
Medical Law and Ethics	X	X	X	X	
Medical Math	X	X	X		
Medical Reading	X	X	X	X	
Medical Spelling	X	X	X	X	
Medical Terminology	X	X	X	X	
Nutrition					
Pathophysiology	X	X	X	X	
Pharmacology	X			X	
Health Professions					
Biomedical Laboratory Science	X	X	X	X	
Clinical Nursing					
Clinical Specialty	X	X	X	X	
Dental Science					
Family Medicine Physician	X	X	X	X	
Home Health Aide					
Medical Assisting		X			
Nursing Assisting		X			
Personal Care*		X			
Pharmacy Science	X			X	
Physical Therapy			X	X	
Sports Medicine					
Emergency Preparedness					
CERT Skills					
CPR/First Aid					
EMT					
Epidemiology	X		X		
Life Support Skills*					
MRC Partnership					
Public Health	X	X	X	X	

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Project Lead The Way		Medical Interventions			
HOSA Competitive Events	Unit 1	Unit 2	Unit 3	Unit 4	
Leadership					
Extemporaneous Writing	X	X	X	X	
Health Career Photography	X	X	X	X	
Healthy Lifestyle	X	X	X	X	
Interviewing Skills*			X	X	
Job Seeking Skills			X	X	
Prepared Speaking					
Research Poster					
Researched Persuasive Writing and Speaking	X				
Speaking Skills*	X	X	X	X	
Teamwork					
Biomedical Debate	X	X			
Community Awareness	X	X	X		
Creative Problem Solving		X		X	
Forensic Science				X	
Health Career Display	X	X	X	X	
Health Education	X		X		
HOSA Bowl	X	X	X	X	
Medical Innovation	X	X	X	X	
Parliamentary Procedure					
Public Service Announcement	X			X	
Recognition					
Barbara James Service Award					
Health Care Issues Exam	X	X	X	X	
HOSA Happenings					
HOSA Service Project					
Outstanding HOSA Achievement					
Outstanding HOSA Leader					

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Project Lead The Way		Biomedical Innovation						
HOSA Competitive Events	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8
Health Science								
Behavioral Health	X	X			X			
Cultural Diversity & Disparities					X			
Dental Terminology		X						
Health Informatics								
Human Growth and Development		X						
Medical Law and Ethics	X				X		X	
Medical Math	X	X	X	X	X	X	X	X
Medical Reading	X	X	X	X	X	X	X	X
Medical Spelling	X	X	X	X	X	X	X	X
Medical Terminology	X	X	X	X	X	X	X	X
Nutrition								
Pathophysiology	X	X	X	X	X	X	X	X
Pharmacology			X					
Health Professions								
Family Medicine Physician								
Biomedical Laboratory Science	X	X	X	X	X	X	X	X
Clinical Nursing	X	X						
Clinical Specialty	X		X	X	X		X	
Dental Science								
Family Medicine Physician	X		X	X	X		X	
Home Health Aide								
Medical Assisting		X					X	
Nursing Assisting	X	X					X	
Personal Care*	X	X					X	
Pharmacy Science	X	X					X	
Physical Therapy	X							
Sports Medicine								
Emergency Preparedness								
CERT Skills	X							
CPR/First Aid								
EMT	X							
Epidemiology	X	X		X	X			
Life Support Skills*								
MRC Partnership								
Public Health			X	X	X			

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Project Lead The Way		Biomedical Innovation						
HOSA Competitive Events	Unit1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8
Leadership								
Extemporaneous Writing	X	X	X	X	X	X	X	
Health Career Photography	X		X	X	X		X	
Healthy Lifestyle				X	X			
Interviewing Skills*								X
Job Seeking Skills								X
Prepared Speaking	X	X	X	X	X	X	X	X
Research Poster								
Researched Persuasive Writing and Speaking	X							X
Speaking Skills*	X	X	X	X	X	X	X	X
Teamwork								
Biomedical Debate				X	X			X
Community Awareness				X	X			
Creative Problem Solving	X	X	X	X	X	X	X	X
Forensic Science	X						X	
Health Career Display	X		X	X	X		X	X
Health Education				X	X			
HOSA Bowl	X	X	X	X	X	X	X	
Medical Innovation	X	X	X	X	X	X		X
Parliamentary Procedure								
Public Service Announcement				X	X			
Recognition								
Barbara James Service Award								
Health Care Issues Exam	X	X	X	X	X	X	X	X
HOSA Happenings								
HOSA Service Project								
Outstanding HOSA Achievement								
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HOSA–Future Health Professionals Competitive Events Overviews

HOSA Handbook, Section B

Event Guidelines. Each guideline contains the following information:

- Purpose
- Description of Event
- Dress Code
- Rules and Procedures
- Test Plan
- Sample Test Questions—new test items or scenarios are developed annually

Find information on the specific events @ hosa.org/guidelines

Contact Information

For additional Information about HOSA and/or PLTW, please contact:

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