

Lubbock ISD Career Cluster & Endorsement/Programs of Study

Endorsement	Current Clusters	Current Programs of Study	CTE	Advanced	Weighted
<p>Science, Technology, Engineering, & Math (STEM) Endorsement will include courses directly related to science including environmental science, technology, computer science, engineering, and advanced mathematics.</p>					
STEM	<p>Four (4) or more credits in a coherent sequence in career and technical education (CTE) that consists of at least two (2) courses in the same career cluster, including at least one advanced CTE course, which includes any course that is the third or higher course in a sequence. The courses may be selected from courses in all CTE career clusters. The final course in the sequence must be selected from one of CTE STEM career cluster.</p>				
	CTE Science, Technology, Engineering and Mathematics	Advanced Computer Programming	X	X	X
		Advanced Engineering Design and Presentation (ATC)	X	X	X
		Biomedical Innovation (MHS - Project Lead the Way) (Fall 2019)	X	X	X
		Computer Integrated Manufacturing (MHS - Project Lead the Way)	X	X	X
		Computer Programming	X	X	X
		Computer Science and Software Engineering (MHS - Project Lead the Way)	X	X	X
		Concepts of Engineering and Technology (CHS - Infinity)	X		X
		Digital Electronics (MHS - Project Lead the Way)	X	X	X
		Engineering Design 1 (CHS - Infinity)	X	X	X
		Engineering Design 2 (CHS - Infinity) (Principles of Engineering) (Fall 2017)	X	X	X
		Engineering Design and Development (MHS - Project Lead the Way)	X	X	X
		Engineering Design and Presentation (ATC)	X	X	X
		Math for Innovators (Engineering Mathematics) (CHS - Infinity)	X	X	X
		Human Body Systems (MHS - Project Lead the Way) (Fall 2017)	X	X	X
		Introduction to Engineering Design (MHS - Project Lead the Way)	X		X
		Medical Interventions (MHS - Project Lead the Way) (Fall 2018)	X	X	X
		Principles of Biomedical Science MHS - Project Lead the Way)	X	X	X
		Principles of Engineering (MHS - Project Lead the Way)	X	X	X
		Problems and Solutions I--STEM	X	X	X
		Problems and Solutions II--STEM	X	X	X
		Research in Information Technology Solutions	X	X	X
		Robotics and Automation	X	X	X
		Robotics II	X	X	X
	Computer Science	Fundamentals of Computer Science			
		Computer Science I (non-weighted), Computer Science A AP			X
		Computer Science II IB SL, Computer Science III IB HL			X
		Digital Forensics, Game Programming and Design, Mobile Application Development			
		Robotics Programming and Design			
	Mathematics	Algebra II (non-weighted), Algebra II Pre-AP			X
		Computer Science I (non-weighted), Computer Science A AP, Computer Science II IB, Computer Science III IB			X
		Independent Study Mathematics - College Algebra			
		Math Studies IB, Mathematics SL IB, Mathematics HL IB			X
		Pre-Calculus Academic (LHS)			X
		Pre-Calculus Pre-AP, AP Calculus AB, AP Calculus BC			X
		Statistics AP			X
	Science	Advanced Plant & Soil Science (LHS)	X	X	
		Anatomy & Physiology (non-weighted); weighted course at ATC if enrolled in health pathway, Anatomy & Physiology HL IB	X	X	X
		Aquatic Science			
		Astronomy			
		Biology AP, Biology IB			
		Chemistry (non-weighted), Chemistry Pre-AP, Chemistry AP, Chemistry C AP, Chemistry HL IB, Chemistry SL IB			X
		Earth & Space Science			
		Engineering Design 2 (CHS - Infinity) (Principles of Engineering)	X	X	X
		Environmental Science AP			X
		Environmental Systems			
		Forensic Science	X	X	
		Medical Microbiology (ATC)	X	X	X
		Pathophysiology (ATC)	X	X	X
		Physics (non-weighted), AP Physics I, Physics II SL IB, Physics C AP			X
		Principles of Engineering (MHS - Project Lead the Way)	X	X	X

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Business & Industry Endorsement will include courses directly related to database management, information technology, communications, accounting, finance, marketing, graphic design, architecture, construction, welding, logistics, auto tech, agricultural science, culinary arts & hospitality and English electives.					
Business & Industry Endorsement	Four (4) or more credits in a coherent sequence in career and technical education (CTE) that consists of at least two (2) courses in the same career cluster, including at least one (1) advanced CTE course, which includes any course that is the third or higher course in a sequence. The courses may be selected from courses in all CTE career clusters. The final course in the sequence must be selected from one of the following CTE career clusters. Career Preparation I or Career Preparation II may be the 3rd course in a coherent sequence, but the final course must come from one of the career clusters listed below.				
	Agriculture, Food & Natural Resources	Agribusiness Management and Marketing (CHS & MHS)	X	X	
		Advanced Plant and Soil Science (LHS)	X	X	
		Energy and Natural Resources Technology (MHS)	X	X	
		Equine Science (CHS & MHS)	X	X	
		Food Technology and Safety (CHS & MHS)	X	X	
		Horticulture Science (LHS)	X	X	
		Landscape Design and Turf Grass Management (CHS & MHS)	X	X	
		Livestock Production (CHS & MHS)	X	X	
		Problems and Solutions I--Agriculture	X	X	X
		Problems and Solutions II--Agriculture	X	X	X
		Principles and Elements of Floral Design	X	X	X
		Principles of Agriculture Food and Natural Resources (CHS & MHS)	X		
		Range Ecology and Management (CHS & MHS)	X	X	
		Small Animal Management (CHS & MHS)	X	X	
		Veterinary Medical Applications (CHS & MHS)	X	X	
	Wildlife, Fisheries and Ecology Management (CHS & MHS)	X	X		
	Architecture and Construction	Advanced Architectural Design (ATC)	X	X	X
		Advanced Construction Technology (ATC)	X	X	X
		Advanced Interior Design	X	X	X
		Architectural Design (ATC)	X	X	X
		Construction Technology (ATC)	X	X	X
		Interior Design	X	X	
		Internship in Construction Management (ATC)	X	X	X
		Internship in Interior Design	X	X	X
		Problems and Solutions I--Architecture Design (ATC)	X	X	X
		Problems and Solutions II--Architecture Design (ATC)	X	X	X
		Principles of Trades and Industrial Technology	X		
	Arts, A/V Technology and Communications	3-D Graphic Modeling & Animation (ATC)	X	X	X
		Advanced 3-D Graphic Modeling & Animation (ATC)	X	X	X
		Advanced Audio/Video Production (ATC)	X	X	X
		Advanced Animation (ATC)	X	X	X
		Advanced Fashion Design	X	X	
		Advanced Fashion Design III	X	X	X
		Advanced Graphic Design & Illustration (ATC)	X	X	X
		Animation (ATC)	X	X	X
		Audio/Video Production (ATC)	X	X	X
		Commercial Photography (ATC)	X	X	X
		Digital and Interactive Media	X	X	X
		Fashion Design	X	X	
		Graphic Design & Illustration (ATC)	X	X	X
		Internship in Audio/Video Production (ATC)	X	X	X
		Principles of Arts, Audio/Video Technology, and Communications	X		
		Problems and Solutions I--3-D Modeling & Animation (ATC)	X	X	X
Problems and Solutions II--3-D Modeling & Animation (ATC)		X	X	X	
Problems and Solutions I--Animation (ATC)		X	X	X	
Problems and Solutions II--Animation (ATC)		X	X	X	
Problems and Solutions I--Graphic Design & Illustration (ATC)		X	X	X	
Problems and Solutions II--Graphic Design & Illustration (ATC)	X	X	X		
Professional Communications (12th Grade Only)	X				

Endorsement	Current Clusters	Current Programs of Study	CTE	Advanced	Weighted
Business & Industry Endorsement (Cont.)	Business Management & Administration	Accounting I	X	X	X
		Accounting II	X	X	X
		Business Information Management I	X	X	X
		Business Information Management II	X	X	X
		Digital and Interactive Media	X	X	X
		Entrepreneurship	X	X	
		Fashion Marketing	X		
		Financial Mathematics	X	X	
		Internship in Business Management	X	X	X
		Principles of Business, Marketing, and Finance	X		
		Sports and Entertainment Marketing	X		
		Touch System Data Entry	X		
	Hospitality and Tourism	Advanced Culinary Arts	X	X	X
		Culinary Arts	X	X	X
		Internship in Culinary Arts (Fall 2017)	X	X	X
		Introduction to Culinary Arts	X		
	Information Technology	Advanced Computer Programming	X	X	X
		Advanced Web Technologies (ATC)	X	X	X
		Computer Maintenance (ATC)	X	X	X
		Computer Networking (ATC)	X	X	X
		Computer Programming	X	X	X
		Computer Technician (ATC)	X	X	X
		Principles of Information Technology	X		X
		Research in Information Technology Solutions	X	X	X
		Video Game Design 1	X	X	X
		Video Game Design 2	X	X	X
		Video Game Design 3	X	X	X
		Web Technologies (ATC)	X	X	X
	Manufacturing	Automated Manufacturing	X	X	X
		Advanced Welding (ATC)	X	X	X
		Internship in Manufacturing (ATC)	X	X	X
		Precision Metal Manufacturing (ATC)	X	X	X
		Principles of Trades and Industrial Technology	X		
		Welding (ATC)	X	X	X
	Transportation, Distribution and Logistics	Advanced Automotive Technology (ATC)	X	X	X
		Advanced Collision Repair and Refinishing (ATC)	X	X	X
		Automotive Technology (ATC)	X	X	X
		Collision Repair and Refinishing (ATC)	X	X	X
		Internship in Auto Collision (ATC)	X	X	X
		Internship in Auto Technology (ATC)	X	X	X
		Principles of Trades and Industrial Technology	X		
	English Electives	Debate I, II, & III (Must complete all three courses & one additional English elective course)			
		Newspaper I, II, & III (Must complete all three courses & one additional English elective course)			
		Public Speaking I, II, & III (Must complete all three courses & one additional English elective course)			
		Yearbook I, II, & III			

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Public Service Endorsement will include courses directly related to education and training, career development, cosmetology, family consumer sciences, law enforcement, and health sciences and occupations.						
Public Services Endorsement	Four (4) or more credits in a coherent sequence in career and technical education (CTE) that consists of at least two (2) courses in the same career cluster, including one (1) advanced CTE course, that is the third or higher course in a sequence. The final course in the sequence must be selected from one of the following CTE career clusters listed below. Career Preparation I or II may be the 3rd course in a coherent sequence, but the final course must come from one of the career clusters listed below.					
	Education and Training	Child Development	X	X		
		Principles of Ready, Set, Teach	X			
		Ready, Set, Teach I (ATC)	X	X	X	
		Ready, Set, Teach II (ATC)	X	X	X	
	Health Science	Anatomy and Physiology (non-weighted); weighted course at ATC if enrolled in health pathway	X	X	X	
		Health Science (ATC)	X	X	X	
		Medical Math (ATC)	X	X		
		Medical Microbiology (ATC)	X	X	X	
		Medical Terminology (ATC)	X	X		
		Pathophysiology (ATC)	X	X	X	
		Practicum in Health Science CNA (Certified Nurse Aide) (ATC)	X	X	X	
		Practicum in Health Science CMA (Certified Medical Assistant) (ATC)	X	X	X	
		Practicum in Health Science CPCT (Certified Patient Care Technician) (ATC)	X	X	X	
		Practicum in Health Science II (Emergency Medical Technician - EMT) (ATC)	X	X	X	
		Principles of Health Science (9th on campus & 10-12 at the ATC)	X			
		Sports Medicine I, II				
		Human Services	Principles of Human Services	X		
			Career Preparation I	X	X	
	Career Preparation II		X	X		
	Child Development		X	X		
	Counseling and Mental Health		X			
	Cosmetology I (Located at LHS/MHS but available to all students)		X	X		
	Cosmetology II (Located at LHS/MHS but available to all students)		X	X	X	
	Lifetime Nutrition and Wellness		X	X		
	Problems and Solutions I--Human Services		X	X	X	
	Problems and Solutions II--Human Services		X	X	X	
	Law, Public Safety, and Security	Principles of Law Public Safety Corrections and Security (EHS)	X		X	
		Court Systems and Practices (EHS)	X	X	X	
		Forensic Science	X	X	X	
		Law Enforcement I (EHS)	X	X	X	
		Law Enforcement II (EHS)	X	X	X	
		Internship in Law Public Safety Corrections and Security (EHS)	X	X	X	
	Junior Reserve Officer Training Corps (JROTC)	Army - JROTC I, II, III, IV (EHS) Navy - JROTC I, II, III, IV (LHS)				

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Arts & Humanities Endorsement will include courses directly related to political science, world languages, cultural studies, English literature, history, and fine arts.						
Arts and Humanities Endorsement	Social Studies	European History AP			X	
		European History/20th Century World Topics IB			X	
		History of the Americas/20th Century World Topics IB			X	
		Human Geography AP, World Geography Studies (non-weighted), World Geography Studies Pre-AP			X	
		Psychology (non-weighted), Psychology Pre-AP, IB Psychology			X	
		Sociology				
		Special Topics in Social Studies: American Culture Studies (non-weighted), Practical Law (non-weighted) or Practical Law Pre-AP, Academic Decathlon Pre-AP, World Civilizations Pre-AP			X	
		World History Studies (non-weighted), World History Studies Pre-AP, World History Studies AP			X	
	World Language	American Sign Language I, II, III				
		Computer Science I (non-weighted), Computer A AP			X	
		French I (non-weighted), II, French II Pre-AP, French III Pre-AP, French IV AP, French IV IB, French V Pre-AP, French V IB			X	
		German I (non-weighted), II, German II Pre-AP, German III Pre-AP, German IV AP, German IV IB, German V IB			X	
		IB AB Initio Mandarin, IB AB Initio Mandarin II			X	
		Latin I (non-weighted), II, Latin II Pre-AP, Latin III Pre-AP, Latin IV AP, Latin IV IB, Latin V Pre-AP, Latin V IB			X	
		Spanish I (non-weighted), II, Spanish II Pre-AP, Spanish III Pre-AP, Spanish IV AP, Spanish IV IB, Spanish V AP, Spanish V IB, Spanish VI			X	
	Fine Arts	Principles and Elements of Floral Design (CHS)	X	X	X	
		3-D Graphic Modeling & Animation (ATC)	X	X	X	
		Advanced 3-D Graphic Modeling & Animation (ATC)	X	X	X	
		A coherent sequence of four credits of the following: Art, Dance, Theatre or Music; refer to High School Course Offerings Booklet for specific fine arts weighted courses			X	
	English	Capstone AP (CHS)		X	X	
		Creative Writing				
		English IV				
		English IV Independent Study			X	
		English Literature and Composition AP			X	
		Humanities				
		IB Language Studies A1 - Higher Level			X	
		Literary Genres				
		Research and Technical Writing				
	Multidisciplinary Studies Endorsement will allow students to select courses from the curriculum of each endorsement area and earn credits in a variety of advanced courses from multiple content areas sufficient to complete the distinguished level of achievement under the foundation high school program. Refer to the LISD High School Course Offerings Booklet and alpha counselor for specific weighted courses allowed under each multidisciplinary endorsement pathway.					
	Multidisciplinary Studies Endorsement	Multidisciplinary Studies	Four advanced courses that prepare a student to enter the workforce successfully or postsecondary education without remediation from within one endorsement area or among endorsement areas that are not in a coherent sequence.			X
			Four credits in each of the four foundation subject areas to include English IV and chemistry and/or physics			X
			Four credits in Advanced Placement, International Baccalaureate, or dual credit courses to include one credit in each of the four foundation subjects.			X