

Lubbock ISD Career Cluster & Endorsement/Programs of Study					
Endorsement	Current Clusters	Current Programs of Study	CTE	Advanced CTE	Weighted
<b>Science, Technology, Engineering, &amp; Math (STEM) Endorsement</b> will include courses directly related to science including environmental science, technology, computer science, engineering, and advanced mathematics.					
<b>STEM</b>	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. 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.				
	<b>CTE Science, Technology, Engineering and Mathematics</b>	AP Computer Science Principles (MHS - Project Lead the Way) (LHS)	X	X	X
		Biomedical Innovation (MHS - Project Lead the Way) (Fall 2019)	X	X	X
		Computer Programming I	X	X	X
		Computer Programming II	X	X	X
		Digital Electronics (MHS - Project Lead the Way)	X	X	X
		Engineering Design and Development (MHS - Project Lead the Way)	X	X	X
		Engineering Design and Presentation I (ATC)	X	X	X
		Engineering Design and Presentation II (ATC)	X	X	X
		Engineering Design and Problem Solving (CHS - Infinity)	X	X	X
		Engineering Mathematics (CHS - Infinity)	X	X	X
		Engineering Science (MHS - Project Lead the Way) (CHS - Infinity)	X	X	X
		Human Body Systems (MHS - Project Lead the Way)	X	X	X
		Internship and Extended Internship in STEM	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
		Principles of Applied Engineering (CHS - Infinity)	X		X
		Project-Based Research in STEM	X	X	X
		Robotics I	X	X	X
	Robotics II	X	X	X	
	<b>Computer Science</b>	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			
		Fundamentals of Computer Science			
		Robotics Programming and Design			
	<b>Mathematics</b>	Algebra II (non-weighted), Algebra II Pre-AP, Algebra II Pre-IB IS			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, Pre-Calculus Pre-IB IS, AP Calculus AB, AP Calculus BC			X
	<b>Science</b>	Statistics AP			X
		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			X
		Chemistry (non-weighted), Chemistry Pre-AP, Chemistry Pre-IB IS, Chemistry AP, Chemistry C AP, Chemistry HL IB, Chemistry SL IB			X
		Earth & Space Science			
		Engineering Science (MHS - Project Lead the Way) (CHS - Infinity)	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 Technology					

Endorsement	Current Clusters	Current Programs of Study	CTE	Advanced CTE	Weighted
<b>Business &amp; Industry Endorsement</b> 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.					
<b>Business &amp; Industry Endorsement</b>	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. The course 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.				
	<b>Agriculture, Food &amp; Natural Resources</b>	Advanced Floral Design and Project-Based Research (ATC)	X	X	X
		Advanced Plant and Soil Science (LHS)	X	X	
		Agribusiness Management and Marketing (CHS & MHS)	X	X	
		Energy and Natural Resources Technology (MHS)	X	X	
		Equine Science (CHS & MHS)	X	X	
		Floral Design and Agricultural Laboratory and Field Experience (ATC)	X	X	X
		Food Technology and Safety (CHS & MHS)	X	X	
		Internship and Extended Internship in Agriculture, Food & Natural Resources	X	X	X
		Landscape Design and Management (CHS & MHS)	X	X	
		Livestock Production (CHS & MHS)	X	X	
		Principles of Agriculture Food and Natural Resources (CHS & MHS)	X		
		Project-Based Research in Agriculture, Food & Natural Resources	X	X	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	
		<b>Architecture and Construction</b>	Architectural Design I (ATC)	X	X
	Architectural Design II (ATC)		X	X	X
	Construction Technology I (ATC)		X	X	X
	Construction Technology II (ATC)		X	X	X
	Interior Design I		X	X	
	Interior Design II		X	X	X
	Internship and Extended Internship in Construction Technology (ATC)		X	X	X
	Internship and Extended Internship in Interior Design		X	X	X
	Principles of Trades and Industrial Technology		X		
	Project-Based Research in Architectural Design (ATC)		X	X	X
	Project-Based Research in Construction Technology (ATC)	X	X	X	
	<b>Arts, A/V Technology and Communications</b>	3D Graphic Modeling & Animation (ATC)	X	X	X
		Advanced 3D Graphic Modeling & Animation (ATC)	X	X	X
		Animation I (ATC)	X	X	X
		Animation II & Lab (ATC)	X	X	X
		Audio/Video Production I & Lab (ATC)	X	X	X
		Audio/Video Production II & Lab (ATC) (Sports, Film, & Broadcast)	X	X	X
		Commercial Photography I & Lab (ATC)	X	X	X
		Digital and Interactive Media	X	X	X
		Fashion Design I	X	X	
		Fashion Design II & Lab	X	X	
		Graphic Design & Illustration I (ATC)	X	X	X
		Graphic Design & Illustration II & Lab (ATC)	X	X	X
		Internship and Extended Internship in Audio/Video Production (ATC)	X	X	X
		Internship and Extended Internship in Fashion Design	X	X	X
		Internship and Extended Internship in Graphic Design and Illustration or Animation (ATC)	X	X	X
		Project-Based Research in 3D Graphic Modeling & Animation (ATC)	X	X	X
		Project-Based Research in Animation (ATC)	X	X	X
		Project-Based Research in Fashion Design	X	X	X
		Project-Based Research in Graphic Design & Illustration (ATC)	X	X	X
Principles of Arts, Audio/Video Technology, and Communications		X			
Professional Communications (Online Only)	X				

Endorsement	Current Clusters	Current Programs of Study	Advanced		
			CTE	CTE	Weighted
<b>Business &amp; Industry Endorsement</b>	<b>Business Management &amp; Administration</b>	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	X	
		Financial Mathematics	X	X	
		Internship and Extended Internship in Business Management	X	X	X
		Principles of Business, Marketing, and Finance	X		
		Project-Based Research in Business Management	X	X	X
		Sports and Entertainment Marketing	X	X	
		Social Media Marketing	X	X	
		Touch System Data Entry	X		
	<b>Hospitality and Tourism</b>	Advanced Culinary Arts (ATC)	X	X	X
		Culinary Arts	X	X	X
		Internship and Extended Internship in Culinary Arts (ATC)	X	X	X
		Introduction to Culinary Arts	X		
	<b>Information Technology</b>	Computer Maintenance (ATC)	X	X	X
		Computer Networking (ATC)	X	X	X
		Computer Programming I	X	X	X
		Computer Programming II	X	X	X
		Computer Technician Internship (ATC)	X	X	X
		Internship and Extended Internship in Information Technology	X	X	X
		Principles of Cybersecurity	X		
		Principles of Information Technology	X		X
		Project-Based Research in Information Technology	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	
	<b>Manufacturing</b>	Internship and Extended Internship in Manufacturing (ATC)	X	X	X
		Precision Metal Manufacturing I (ATC)	X	X	X
		Precision Metal Manufacturing II & Lab (ATC)	X	X	X
		Principles of Trades and Industrial Technology	X		
		Welding I (ATC)	X	X	X
		Welding II & Lab (ATC)	X	X	X
	<b>Transportation, Distribution and Logistics</b>	Automotive Technology I: Maintenance and Light Repair (ATC)	X	X	X
		Automotive Technology II: Automotive Service and Lab (ATC)	X	X	X
		Collision Repair (ATC)	X	X	X
		Internship and Extended Internship in Transportation Systems (ATC)	X	X	X
		Paint and Refinishing & Lab	X	X	X
		Principles of Trades and Industrial Technology	X		
	<b>English Electives</b>	Debate I, II, & III (Must complete all three courses & one additional English elective course)			
		Newspaper I, II, & III (Weighted credit for Levels II and III, if prerequisites are successfully completed.)			X
		Public Speaking I, II, & III (Must complete all three courses & one additional English elective course)			
		Yearbook I, II, & III (Weighted credit for Levels II and III, if prerequisites are successfully completed.)			X

Endorsement	Current Clusters	Current Programs of Study	Advanced		Weighted
			CTE	CTE	
<p><b>Public Service Endorsement</b> will include courses directly related to education and training, career development, cosmetology, family consumer sciences, law enforcement, and health sciences and occupations.</p>					
<b>Public Services Endorsement</b>	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. The course 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.				
	<b>Education and Training</b>	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
	<b>Health Science</b>	Anatomy and Physiology (non-weighted); weighted course at ATC if enrolled in health pathway	X	X	X
		Health Science Theory (ATC)	X	X	X
		Mathematics for Medical Professionals (ATC)	X	X	
		Medical Microbiology (ATC)	X	X	X
		Pathophysiology (ATC)	X	X	X
		Practicum in Health Science CNA (Certified Nurse Aide) (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 (9-10 Campus & Grade 11 Talkington)	X		
		Sports Medicine I, II			
	<b>Human Services</b>	Career Preparation I Paid Internship	X	X	
		Career Preparation II Paid Internship	X	X	
		Child Development	X	X	
		Counseling and Mental Health	X	X	
		Cosmetology II and Principles of Cosmetology Design and Color Theory (Located at LHS/MHS but available to all students)	X	X	X
		Introduction to Cosmetology and Cosmetology I (Located at LHS/MHS but available to all students)	X	X	
		Interpersonal Studies	X		
		Lifetime Nutrition and Wellness	X	X	
		Principles of Human Services	X		
		Project-Based Research in Human Services	X	X	X
	<b>Law, Public Safety, and Security</b>	Court Systems and Practices (EHS)	X	X	X
		Forensic Science	X	X	X
		Internship and Extended Internship in Law Public Safety Corrections and Security (EHS)	X	X	X
		Law Enforcement I (EHS) (ATC)	X	X	X
		Law Enforcement II (EHS)	X	X	X
	Principles of Law Public Safety Corrections and Security (EHS) (ATC)	X		X	
	<b>Junior Reserve Officer Training Corps (JROTC)</b>	Army - JROTC I, II, III, IV (EHS) Navy - JROTC I, II, III, IV (LHS)			

Endorsement	Current Clusters	Current Programs of Study	CTE	Advanced CTE	Weighted
<p><b>Arts &amp; Humanities Endorsement</b> will include courses directly related to political science, world languages, cultural studies, English literature, history, and fine arts.</p>					
<p><b>Arts and Humanities Endorsement</b></p>	<p><b>Social Studies</b></p>	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, Human Geography AP Pre-IB IS, World Geography Studies (non-weighted), World Geography Studies Pre-AP			X
		Personal Financial Literacy			
		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, World History AP Pre-IB IS			X
	<p><b>World Language</b></p>	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 II Pre-IB IS, French III Pre-AP, French III Pre-IB IS, French IV AP, French IV IB, French V Pre-AP, French V IB			X
		German I (non-weighted), II, German II Pre-AP, German II Pre-IB IS, German III Pre-AP, German III Pre-IB IS, 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 II Pre-IB IS, Latin III Pre-AP, Latin III Pre-IB IS, Latin IV AP, Latin IV IB, Latin V Pre-AP, Latin V IB			X
		Spanish I (non-weighted), II, Spanish II Pre-AP, Spanish II Pre-IB IS, Spanish III Pre-AP, Spanish III Pre-IB IS, Spanish IV AP, Spanish IV IB, Spanish V AP, Spanish V IB, Spanish VI			X
	<p><b>Fine Arts</b></p>	3D Graphic Modeling & Animation (ATC)	X	X	X
		Advanced 3D Graphic Modeling & Animation (ATC)	X	X	X
		Advanced Floral Design	X	X	X
		Floral Design	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
	<p><b>English</b></p>	Capstone AP Seminar (CHS, LHS)			X
		Capstone AP Research (CHS)			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				
<p><b>Multidisciplinary Studies Endorsement</b> 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.</p>					
<p><b>Multidisciplinary Studies Endorsement</b></p>	<p><b>Multidisciplinary Studies</b></p>	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