

Endorsement: Arts and Humanities

	Pathway	9th grade	10th grade	11th grade	12th grade
Arts and Humanities	Fine Arts	s for four credits in the same Fine Arts Pathway Two courses for Two credits each in Two different Fine Arts Pathways for a total of Four Courses & Four Credits		courses for four credits in the same Fine Arts Pathway OR Two courses for Two credits each in Two different Fine Arts Pathways for a total of Four Courses & Four Credits	
Arts and Humanities	Visual Arts	6610 Art I	6620 Art II - Drawing	6630 Art III	6645 Art IV OR 6646 AP Studio Art
Arts and Humanities	Theatre Arts	6411 Theatre Arts I Year 1 or 6511 THEA PROD 1	6421 Theatre Arts II OR 6521 Theatre Production II OR 6451 Technical Theatre I Year 1	6431 Theatre Arts III Year 3 OR 6531 Theatre Production III Year 3 OR 6461 Technical Theatre I	6441 Theatre Arts IV Year 4 OR 6541 Theatre Production IV Year 4 OR 6462 Technical Theatre III Year 3
Arts and Humanities	Band	6011 Band Year I OR 8656 Marching Band (PE 1) AND 6011 Band Year 1	6020 Band Year 2 OR 8657 Marching Band PE 2 AND 6020 Band Year 2 OR 6015 Jazz Band 1	6030 Band Year 3 6025 Jazz Band 2	6040 Band Year 4 6035 Jazz Band 3
Arts and Humanities	Choir	6100 Choir Year 1 6148 VOC ENSEM 1	6102 Choir Year 2 6149 VOC ENSEM 2	6103 Choir Year 3 6 6150 VOC ENSEM 3	6104 Choir Year 4 6151 VOC ENSEM 4
Arts and Humanities	Dance	6701 Dance Year 1 6225 COLOR GUARD 1	6702 Dance Year 2 6226 COLOR GUARD 2	6703 Dance Year 3 6227 COLOR GUARD 3	6704 Dance Year 4 6228 COLOR GUARD 4
Arts and Humanities	Orchestra	6050 Orchestra Year 1 6081 INSTR ENSEM 1	6060 Orchestra Year 2 6082 INSTR ENSEM 2	6070 Orchestra Year 3 6083 INSTR ENSEM 3	6080 Orchestra Year 4 6084 INSTR ENSEM 4
Arts and Humanities	Languages other than English (LOTE) 4yrs Same LOTE	4410 Spanish I 4420 Spanish 2 4431 Spanish 3 4435 Spanish 3 (PreAP) 4110 French 1 4210 German 1 4310 Latin 1	4420 Spanish 2 4431 Spanish 3 4435 Spanish 3 (Pre-AP) 4444 Spanish 4 OR 4446 AP Spanish Language 4120 French 2 4220 German 2 4320 Latin 2	4431 Spanish 3 4435 Spanish 3 (PreAp) 4444 Spanish 4 OR 4446 AP Spanish Language 4454 Spanish 5 OR 4455 AP Spanish Lit 4132 French 3 OR 4133 French 3 PreAP 4233 German 3 OR 4234 German 3 PreAP 4332 Latin 3 OR 4333 Latin 3 PreAP	4444 Spanish 4 4446 AP Spanish Language 4454 Spanish 5 4455 AP Spanish Lit 4462 Spanish 6 4143 French 4 OR 4144 AP French Lang 4243 German 4 OR 4244 AP German 4337 Latin 4
Arts and Humanities	LOTE Two different LOTES for a total of Four credits	Two years of same language: Spanish I and Spanish II OR French I and French II OR German 1 and German II OR Latin I and Latin II		Two years of a different language: Spanish I and Spanish II OR French I and French II OR German 1 and German II OR Latin I and Latin II OR Computer Science I and Computer Science II (not eligible for A&H Endorsement)	
Arts and Humanities	Social Studies Five courses for Five credits in no particular sequence	5120 World Geography OR 5130 PreAP World Geography OR 5136 Human Geography AP	5280 World History OR 5284 World History PreAP	5220 US History OR 5230 US History AP (Required) 5413 Psychology AND 5422 Sociology OR 5114 Psychology AP AND either 5458 Philosophy or 5422 Sociology 5165 US Gov't OR 5170 US Gov't AP AND 5020 Economics or 5034 Micro Economics AP AND 5036 AP Macro Economics (Required)	
Arts and Humanities	English Four courses for four elective credits in English	English I	English II and Creative Writing	AP English Language AND Research and Technical Writing	1420 English 4 OR 1430 AP English Literature OR Business English
*A course completed as part of the set of our courses needed to satisfy an endorsement requirement may also satisfy a requirement under the Foundation High School Program, including an elective requirement. A student must still earn a total of 26 credits to graduate Foundation High School Program with an Endorsement.					

Endorsement: Business & Industry

Cluster	Pathway	9th grade	10th grade	11th grade	12th grade	Potential
Energy	Oil and Gas	7150/7151 Oil and Gas 1	7152 Oil and Gas 2	7166 Oil and Gas 3	7167 Oil and Gas 4	Level 1 MC Energy Tech
Transportation Services	Diesel & Heavy Equipment	7840 Business Info Mgt	7811 Ag Mechanics	7958 Diesel I	7959 Diesel II	OSHA 30 General Industry and Level I MC Diesel Tech
Manufacturing	Welding	7840 Business Info Mgt	7811 Ag Mechanics	7911 Welding I	7912 Welding II	OSHA 30 General Industry, Level I MC Welding Tech and/or AWS Sense Welding Level I
Transportation Services	Automotive	7840 Business Info Mgt	7811 Ag Mechanics	7950 Auto Tech I	7951 Auto Tech II	OSHA 30 General Industry and MC Level 1 Auto Tech
Transportation Services	Automotive Body	7840 Business Info Mgt	7811 Ag Mechanics	7952 Collision Repair (2) ATC	7953 Paint & Refinishing (2) ATC	OSHA 30 General Industry, ASE Auto Services Excellence (ASE) Entry Level
Business, Mgmt and Technology Academy	Business Management	7871 Prin of Business, Marketing & Fiance OR 7845 Business Information Management for the Academy(1)	7845 Buisness Info Mgt I OR 7846 BIM 2 for Academy (1)	7876 Business Management D	7861 Stats & Business Decision Making OR 7843 Practicum in Bus Management OR 7977 Career Prep 1	
Business, Mgmt and Technology Academy	Engineering	7943 Principles of Applied Engineering	7925 Engineering Design and Presentation I	7934 Engineering Design & Problem Solving	7937 Technical Drafting (2 hour block) change name back to Dual Engineering Design and Presentation II	Computer Aided Drafting Technician
Business, Mgmt and Technology Academy	Accounting & Financial Services	7871 Prin of Business Marketing & Finance OR 7840 Business Info Mgt (BIM I)	7857 Accounting 1 OR 7180 Financial Math	Accounting II	7843 Practicum in Business Management OR 7797 Career Prep	Intel Quickbooks Certified User
Business & Marketing & Finance	Business Mgt.	7871 Prin of Business, Marketing and Fiance OR 7845 Business Information Management for the Academy(1)	7842 Business Law OR 7846 BIM 2 for Academy (1)	7876 Business Management D	7861 Stats & Business Decision Making OR 7843 Practicum in Bus Management OR 7797 Career Prep 1	
Business & Marketing	Marketing & Sales	7850 Principles of Business, Marketing, & Finance (1)	7924 Advertising (.5) 7917 Fashion Marketing (.5) 7921 Social Media Marketing (.5) 7919 Sports & Entertainment Marketing (.5) [CHOOSE 2]	7924 Advertising (.5) 7917 Fashion Marketing (.5) 7921 Social Media Marketing (.5) 7919 Sports & Entertainment Marketing (.5) [CHOOSE 2]	7843 Business Practicum OR 7797 Career Prep (2) OR 7974 Banking & Financial Services	

Agriculture, Food, & Natural Resources	Plant Science	7840 Business Information Mgt I (BIM I) OR 7801 Principles of Agriculture, Food, & Natural Resources	7801 Principles of Agriculture, Food, & Natural Resources OR 7805 Wildlife, Fish & Eco Mgt.	7173 Floral Design	7797 Career Prep (3)	Texas State Floral Assoc. Level I Floral Certificate
Agriculture, Food, & Natural Resources	Animal Science	7801 Principles of Agriculture, Food, & Natural Resources (1)	7803 Equine Science & Small Animal Mgt.	7802 Livestock Production (1)	7804 Advanced Animal Science or 7977 Veterinary Medical Applications/Lab	Certified Vet Assistant Level 1
Agriculture, Food, & Natural Resources	Applied Agricultural Engineering	7801 Principles of Agriculture, Food, & Natural Resources (1)	7811 Agricultural Mechanics & Metal Technologies (1)	7174 Agricultural Structures Design & Fabrication (1)	7797 Career Prep (3)	AWS Sense Welding Level I
Media Technology & Communication	Design & Multimedia Arts	7832 Principles of Arts, AV Tech. & Comm (1)	7834 Animation I (1) OR 7170 Video Game Programming OR 7831 Graphic Design & Illustration 1	7835 Animation II/Lab (2) OR 7978 Commercial Photography OR 7833 Graphic Design & Illustration II	7797 Career Prep 1	Adobe Certified Associate Certifications
<u>Business and Industry- Explore Your Future</u>						

Endorsement: Public Service						
Cluster	Pathway	9th grade	10th grade	11th grade	12th grade	POTENTIAL
Public Service		Two courses for two credits each in two different Public Service Pathways for a total of four courses & four credits OR Two courses for four credits in the same Public Service Pathway		Two courses for two credits each in two different Public Service Pathways for a total of four courses & four credits OR Two courses for four credits in the same Public Service Pathway		
Health Science Academy	Emergency Services EMT	7865 Principles of Health Science (1)	7867 Medical Term	2280 Anatomy & Physiology	7869 EMT Health Science (2 hour block)	Emergency Medical Technician Basic
Health Science Academy	Nursing Science Patient Care Technician (CNA,EKG,Phlebotomy)	7865 Principles of Health Science (1)	7867 Medical Terminology (1)	7866 CNA Health Science Theory (2)	7177 Practicum- Patient Care Tech Health Science (Must have CNA certification) OPTIONAL (Recommended): (2) Anatomy & Physiology	Patient Care Technician
Health Science Academy	Healthcare Therapeutic Pharmacy Tech	7865 Principles of Health Science (1)	7867 Medical Terminology (1)	7178 Pathophysiology & 7171 Pharmacology OPTIONAL: 7182 World Health Research	7179 Practicum: Pharmacy Tech Health Science OPTIONAL: Anatomy & Physiology (2 hour block)	Certified Pharmacy Tech
Business, Mgmt and Technology Academy	Culinary Arts	7162 Principles of Hospitality & Tourism	7872 Into to Culinary Arts	7873 Culinary Arts 1 (2 hour block)	7156 Advanced Culinary Arts OR 7874 Culinary Arts Practicum (2 hour block) OR 7797 Career Prep	ServSafe Manager and/or Certified Fundamentals Cook
JROTC	JROTC	8493 ROTC Year 1	8494 ROTC Year 2	8495 ROTC Year 3	8496 ROTC Year 4	Military enlistment
Education & Training	Early Learning	7960 Principles of Education & Training (1) OR 7883 Principles of Human Services	7984 Child Development (1)	7877 Child Guidance (2)	7878 Practicum- Human Services Early Learning (2)	Child Develop Associate - Requirements too many to achieve for ISD
Education & Training	Education & Training	7960 Principles of Education & Training (1) OR 7883 Principles of Human Services	7984 Child Development)	7853 Instructional Practices (2)	7878 Practicum in Education Training (3)	MC Education Dual Credit hours
Human Services	Cosmetology	7840 Business InformationMgt (BIM I)	7880 Introduction to Cosmetology (1)	7881 Cosmetology I (2 hour block)	7884 Cosmetology II/Lab (3 hour block)	Cosmetology Operator License
Hospitality	Hospitality & Tourism	7840 Business InformationMgt (BIM I) OR 7162 Principles of Hospitality & Tourism	7872 Introduction to Culinary (1) OR 7983 Travel & Tourism	7873 Culinary Arts (2) OR 7981 Hospitality Service (2)	7874 Practicum- Culinary Arts (2) , 7797 Career Prep OR 7554 Food Science	ServSafe Manager /Certified Fundamentals Cook
Law and Public Service	Law Enforcement	7840 Business InformationMgt (BIM I)	7841 BIM 2	7190/7191Law Enforcement I (1) AND 7195/7196 Correctional Services (1) MC	7991 Law Enforcement II/Court Systems & Practices (1) MC OPTIONAL: 7626 Forensic Science (1)	MC Criminal Justice Dual Credit hours
Public Service- Explore Your Future						

MISD Endorsement Guidance Sheet 2020-2021 For Starting 9th Graders

Endorsement: STEM						
Cluster	Pathway	9th grade	10th grade	11th grade	12th grade	Potential
STEM	Math Five Courses for Five Credits	3220 Algebra I (required) OR 3320 Geometry (required)	3320 Geometry (required) OR 3260 Algebra II (required)	3420 Pre-Calculus 3665 Statistics AP College Algebra	3480 AP Calculus AB 3482 AP Calculus BC 3444 Advanced Quantitative Reasoning	
STEM	Science Five Courses for Five Credits	2220 Biology (required)	2420 Chemistry (required)	2520 Physics (required) or 2535 Physics AP 2270 Biology AP 2290 Anatomy & Physiology H 2575 Astronomy 7626 Forensics	2460 Chemistry AP 2324 Environmental Science AP 2277 Scientific Research and Design H 2320 Environmental Systems 7554 Food Science 2280 Anatomy & Physiology	
STEM	Engineering	7943 Principles of Applied Engineering	7925-Engineering Design & Presentation	7934 Engineering Design & Problem Solving OR 7927 Engineering Design & Presentation 2	7934 Engineering Design and Problem Solving OR 2276 Introduction to Engineering Dual Credit (Engineering Design & Problem Solving Dual Credit)	MC Computer Aided Drafting Technician Level 1 and or AutoDesk Certified Professional or User, and or Certified Solidworks Associate
STEM	Advanced Manufacturing and Machinery Mechanics	7943 Principles of Applied Engineering OR 7931-Robotics I	7931-Robotics I OR 7163 Robotics II	7163 Robotics II OR 7169 Sci R & D 3	7934 Engineering Design and Problem Solving OR 2276 Introduction to Engineering Dual Credit (Engineering Design & Problem Solving Dual Credit)	AutoDesk Certified Professional or User, and or Certified Solidworks Associate
STEM	Programming & Software Development	7840 BIM I	7892 Computer Programming I (1) OR 7841 BIM II	7893 Computer Programming II (1) OR 7892 Computer Programming I	7797 Career Prep 1 OR 7843 Practicum OR 7893 Computer Programming II (1)	Oracle Certified Assoc. JAVA SE 8 Programmer
STEM	PLTW	7840 BIM 1	7183 Prin of Bio Medical Science (PLTW)	7186 Human Body Systems (PLTW)	7187 Medical Interventions (PLTW) OR 7178 Pathophysiology D	

[Science, Technology, Engineering, & Math- Explore Your Future](#)

MISD Endorsement Guidance Sheet 2020-2021

Endorsement: Multi-Disciplinary

	Pathway	9th grade	10th grade	11th grade	12th grade
Multi	4x4 Four courses in Four core content areas advanced or regular	5120 World Geography OR 5136 Human Geography AP	5280 World History OR 5264 AP World History	5220 US History	5165 US Gov't AND 5020 Economics
Multi	4x4 Four courses in Four core content areas advanced or regular	1120 English I	1220 English II	1320 English III	1420 English IV
Multi	4x4 Four courses in Four core content areas advanced or regular	2120 IPC OR 2220 Biology(required)	2220 Biology(required) OR 2420 Chemistry(required)	2420 Chemistry (required) OR 2520 Physics OR Advanced Science: Advanced Animal Science, Astronomy, Earth and Space Science, Environmental Systems, Any AP Science course, Advanced Animal Science, Anatomy and Physiology, Food Science, Forensic Science, Scientific Research and Design, Engineering Design and Problem Solving,	2520 Physics OR Astronomy, Earth and Space Science, Environmental Systems, Any AP Science Course, Advanced Animal Science, Food Science, Engineering Design & Problem Solving, Forensic Science, Anatomy & Physiology, Prin of Technology, Scientific Research and Design
Multi	4x4 Four courses in Four core content areas advanced or regular	3220 Algebra(required)	Geometry(required)	Math Models OR Algebra II (required)	Algebra II (required) OR Algebra II PreAP, PreCalculus, AP Calculus AB and BC, AP Computer Science, AP Stats, Calculus, Statistics & Risk Mgt., Financial Math, Advanced Quantitative Reasoning (AQR)
Four credits in each of the subjects above, and 4 credits as described from one of the following...					
Multi	Advanced Placement Four courses for four credits in Advanced Placement	Four credits in Advanced Placement selected from English, mathematics, science, social studies, economics, languages other than English, or fine arts-- not pre-ap			
Multi	Dual Credit Four courses for four credits in Dual Credit	Four credits in Dual Credit selected from English, mathematics, science, social studies, economics, languages other than English, or fine arts			
Multi	CTE	Four advanced courses for four credits that prepare students to enter the workforce or post-secondary education without remediation from within one endorsement area. Advanced courses are courses year two or higher.			

Multi-Disciplinary- Explore Your Future

MISD Endorsement Guidance Sheet 2020-2021

Endorsement: ECHS Multi-Disciplinary

	<u>Pathway</u>	<u>9th grade</u>	<u>10th grade</u>	<u>11th grade</u>	<u>12th grade</u>
ECHS	4x4 Four courses in Four core content areas advanced or regular	World Geography	AP Human Geography and Historiography	US History (required) US Govt (may take in 11th grade)	US Gov't AND Economics
ECHS	4x4 Four courses in Four core content areas advanced or regular	English I	English II	English III	English IV
ECHS	4x4 Four courses in Four core content areas advanced or regular	Biology(required)	Chemistry(required)	Chemistry (required) OR Physics OR Advanced Science: Advanced Animal Science, Astronomy, Earth and Space Science, Environmental Systems, Any AP Science course, Advanced Animal Science, Anatomy and Physiology, Food Science, Forensic Science, Scientific Research and Design, Engineering Design and Problem Solving,	Physics OR Astronomy, Earth and Space Science, Environmental Systems, Any AP Science Course, Advanced Animal Science, Food Science, Engineering Design & Problem Solving, Forensic Science, Anatomy & Physiology, Prin of Technology, Scientific Research and Design
ECHS	4x4 Four courses in Four core content areas advanced or regular	Algebra(required)	Geometry(required)	Math Models OR Algebra II (required)	Algebra II (required) OR Algebra II PreAP, PreCalculus, AP Calculus AB and BC, AP Computer Science, AP Stats, Calculus, Statistics & Risk Mgt., Financial Math, Advanced Quantitative Reasoning (AQR)
ECHS		Four credits in Advanced Placement selected from English, mathematics, science, social studies, economics, languages other than English, or fine arts-- not pre-ap			
ECHS		Four credits in Dual Credit selected from English, mathematics, science, social studies, economics, languages other than English, or fine arts			