



GRADUATION PLAN

**Foundation High School Plan
(FHSP+Endorsement)**

Incoming Freshmen, Fall 2014 and Beyond

Prepared by the Office of Counseling and Psychological Services, updated March 2017

KATY ISD GRADUATION PROGRAMS

Students need sound advice and adequate academic preparation to successfully participate in a challenging academic curriculum and to make appropriate choices for the future. This brochure is designed to help parents and students better understand the graduation programs available in Katy ISD for freshman students who enter high school in the fall of 2014 and later.

What is the Foundation High School + Endorsements Program (FHSP)?

All freshmen enter high school on the 26-credit FHSP + Endorsement plan. The 22-credit Foundation program is required for all endorsements. The foundation includes specific credits required for all students.

In addition to the 22 required foundation credits, each endorsement requires a fourth math credit and a fourth science credit and two additional credits, bringing the total number of required credits to 26. Endorsements are courses of study in a variety of college and career paths in addition to the Foundation requirements. All students in 8th grade should choose an endorsement and make course selections that will allow them to meet the requirements of that specific endorsement.

The 22-Credit Foundation

English 4 Credits	+	Math 3 Credits	+	Science 3 Credits	+	Social Studies 3 Credits	+	LOTE 2 Credits
must include: <ul style="list-style-type: none"> • English I, • English II, • English III, and • a 4th English credit <i>The 4th English credit must be taken after successful completion of English I, II and III.</i>		must include: <ul style="list-style-type: none"> • Algebra I, • Geometry, and • a 3rd math credit <i>The 3rd math credit must be taken after successful completion of Algebra I and Geometry.</i>		must include: <ul style="list-style-type: none"> • Biology, and <u>one</u> credit selected from: <ul style="list-style-type: none"> • IPC, <u>or</u> • Chemistry, <u>or</u> • Physics, <u>AND</u> must include: <ul style="list-style-type: none"> • a 3rd science credit 		must include: <ul style="list-style-type: none"> • either World Geography <u>or</u> • World History credit, <u>AND</u> must include: <ul style="list-style-type: none"> • US History, • Government (.5 credit), and • Economics (.5 credit) 		must include: <ul style="list-style-type: none"> • two (2) levels/credits in the same language in a language other than English <i>Katy ISD requires levels 1 and 2</i>
PE 1 Credit	+	Health .5 Credit	+	Fine Arts 1 Credit	+	Electives 4.5 Credits	+	Endorsement 4 credits
either a full credit from one course or a combination of half credits from two (2) separate courses		Katy ISD requires a half credit of Health <i>The full credit of Principles of Health Science may substitute</i>		the Fine Arts requirement <u>cannot</u> be earned through a combination of half credits from two (2) separate courses		must include: <ul style="list-style-type: none"> • a communication skills component 		4 additional credits, including <ul style="list-style-type: none"> • an additional math credit and • an additional science credit

Four math credits and four science credits are required for all endorsement categories. STEM requires Algebra II, Chemistry and Physics.

STATE ASSESSMENT PERFORMANCE

In addition to the credit requirements listed on the prior page, students must meet passing standards on the following End-of-Course Exams to meet state graduation requirements:

- English I
- English II
- Algebra I
- Biology
- United States History

RECOGNITIONS

Students have the opportunity to earn additional recognitions in the following areas:

DISTINGUISHED LEVEL OF ACHIEVEMENT

A student may earn a distinguished level of achievement by successfully completing all curriculum requirements for the Foundation High School Program, plus the requirements of at least one endorsement, including:

- A fourth credit in mathematics, which must include Algebra II;
- A fourth credit in science;
- The requirements of at least one endorsement

A student must graduate with a Distinguished Level of Achievement to be considered for the Top 10% and eligible for automatic admission to a Texas public college or university.

PERFORMANCE ACKNOWLEDGEMENTS

A student may earn a performance acknowledgement in one or more of the following categories:

- AP test score of 3 or above
- IB test score of 4 or above (applies to transfer students only as the International Baccalaureate program is not offered in Katy ISD)
- Outstanding performance on the PSAT, the SAT or the ACT
- Completion of at least 12 hours' college coursework with final grades of A or B (3.0 GPA or above);
- Bilingualism and bi-literacy; and
- Earning a state, nationally or internationally recognized business or industry certification or license

ENDORSEMENTS

There are five endorsement areas which allow flexibility in course requirements based on individual interests and career goals. Each endorsement is designed to prepare the student to successfully enter postsecondary education or the workforce upon graduation. All students are required to declare an endorsement in writing by the beginning of 9th grade. While students are allowed to pursue more than one endorsement, all students must choose one, which must be tracked. Students will be permitted to change their endorsement with written notification signed by a parent or guardian.

The five endorsement areas are as follows:

- **STEM** – Science, including computer science, Tech, Engineering and Mathematics (Algebra II, Chemistry and Physics are required for the STEM endorsement);
- **PUBLIC SERVICES** – Education and Training; Government and Public Administration; Health Sciences; Human Services; Law, Public Safety, Corrections and Security;
- **BUSINESS & INDUSTRY** – Agriculture, Food and Natural Resources; Architecture and Construction; Business Management and Administration; Finance; Hospitality and Tourism; Information Tech; Manufacturing; Marketing; Transportation; Journalism; and Public Speaking;
- **ARTS & HUMANITIES** – Social Studies; Languages Other Than English; Fine Arts; and English Language Arts; and
- **MULTIDISCIPLINARY STUDIES** – Allows students to take a course of study selected from several endorsement areas as listed above.

Specific requirements for each endorsement were adopted by the State Board of Education on January 31, 2014.



STEM (Science • Technology • Engineering • Math)

STEM Opt 1: CTE: Engineering	OR	STEM Opt 2: Advanced Math	OR	STEM Opt 3: Advanced Science	OR	STEM Opt 4: Computer Science	OR	STEM Opt 5: Combination
Four (4) CTE credits, including: <ul style="list-style-type: none"> • 2 credits in the STEM (Engineering) career cluster and one advanced CTE STEM (Engineering) credit 		A total of five (5) math credits, including: <ul style="list-style-type: none"> • Algebra I, • Geometry and • Algebra II, and • 2 additional math credits for which Algebra II is a prerequisite 		A total of five (5) science credits, including <ul style="list-style-type: none"> • Biology, • Chemistry and • Physics, and • 2 additional science credits 		A total of four (4) credits in Computer Science or Computer Programming		A combination of credits earned through courses from <u>up to two (2)</u> STEM categories
pages 71 and 81		pages 40 - 42		pages 42 - 44		pages 54 - 55		

Four math credits and four science credits are required for all endorsement categories.
STEM requires completion of Algebra 2, Chemistry and Physics.








Business & Industry

Business & Industry Opt 1: CTE	OR	Business & Industry Opt 2: Journalism or Speech	OR	Business & Industry Opt 3: Technology	OR	B & I Opt 4: Combination
Four (4) CTE credits, including <ul style="list-style-type: none"> • Two (2) credits in the same career cluster, and • One (1) advanced CTE credit 		Four (4) English elective credits, including either: <ul style="list-style-type: none"> • Three (3) credits in either Newspaper or Yearbook, <u>OR</u> • Three (3) credits in either Debate or Oral Interpretation 		Four (4) Technology Applications credits		A total of four (4) credits earned through courses in a combination of Business & Industry categories
pages 55, 59 - 67, and 72 - 78		pages 53 - 54		page 55		

Four math credits and four science credits are required for all endorsement categories.
Algebra 2 is required for the Distinguished Level of Achievement (DLA).







Public Services

Public Services Opt 1: Health Science	OR	Public Services Opt 2: Education	OR	Public Services Opt 3: Human Services	OR	Public Services Opt 4: Law, Public Safety...	OR	Public Services Opt 5: NJROTC
Four (4) CTE credits, including: <ul style="list-style-type: none"> Two (2) credits in the Health Science career cluster, and One (1) advanced Health Science course selected from Anatomy & Physiology, Clinical Rotation, EMT Basic, Pharmacy Tech, or Dental Assisting 		Four (4) CTE credits, including: <ul style="list-style-type: none"> Two (2) credits in the Education career cluster, and One (1) advanced Education course 		The following sequence of courses/credits from the Human Services career cluster: <ul style="list-style-type: none"> Introduction to Cosmetology and Cosmetology I, <u>AND</u> Principles of Cosmetology Design & Color Theory and Cosmetology II 		The following sequence of courses/credits from the Law career cluster: <ul style="list-style-type: none"> Criminal Justice I: Law Enforcement I and Court Systems & Practices, and Criminal Justice II: Law Enforcement II, Special Topics in Social Studies I (Civic Engagement) and II (Criminal Justice) 		NJROTC I NJROTC II NJROTC III and NJROTC IV
 pages 67 - 68 and 79		 pages 67 and 79		 pages 69 - 70		 page 70		 pages 71 and 81

Four math credits and four science credits are required for all endorsement categories.
 Algebra 2 is required for the Distinguished Level of Achievement (DLA).






Arts & Humanities

Arts & Humanities Opt 1: Social Studies	OR	Arts & Humanities Opt 2: Languages Other Than English	OR	Arts & Humanities Opt 3: Fine Arts	OR	Arts & Humanities Opt 4: English Language Arts
A total of five (5) Social Studies credits, including: <ul style="list-style-type: none"> either World History or World Geography, US History, Government (.5 credit), and Economics (.5 credit) 		A total of four (4) World Languages credits: <ul style="list-style-type: none"> Four (4) credits in one language, or Two (2) credits in one language and two (2) credits in a second language 		A total of four (4) Fine Arts credits from <u>up to two (2)</u> Fine Arts disciplines: <ul style="list-style-type: none"> Art Dance Music Theatre 		A total of four (4) English elective credits in addition to English I, English II and English III.
 pages 44 - 46		 pages 47 - 49		 pages 49 - 52		 pages 38 - 39

Four math credits and four science credits are required for all endorsement categories.
 Algebra 2 is required for the Distinguished Level of Achievement (DLA).



Multidisciplinary Studies

Multidisciplinary Studies Opt 1: College / Workforce Readiness	OR	Multidisciplinary Studies Opt 2: "4 x 4"	OR	Multidisciplinary Studies Opt 3: AP, Dual Credit, or IB* Credits
<p>A total of four (4) additional/advanced credits that prepare the student to</p> <ul style="list-style-type: none">enter postsecondary education without the need for remediation, orsuccessfully enter the workforce		<p>A total of four (4) credits in each of the four (4) foundation areas of:</p> <ul style="list-style-type: none">English Language ArtsMathScienceSocial Studies		<p>A total of four (4) AP, Dual Credit, or IB* credits selected from the following categories:</p> <ul style="list-style-type: none">English Language ArtsMathScienceSocial StudiesLanguages Other Than EnglishFine Arts <p>*IB applies to transfer students only. The IB program is not offered in KISD.</p>
 throughout catalog		 pages 39 - 39; 40 - 42; 42 - 44; and 44 - 46		 pages 17 - 21 and throughout

Four math credits and four science credits are required for all endowment categories.

Algebra 2 is required for the Distinguished Level of Achievement (DLA).

Sample Four Year Plans for the Foundation High School Program + Endorsement

Note: Many of the following example plans assume no credits earned prior to 9th grade. Students who earned high school credits in junior high such as Algebra I, Art I, Spanish I, Concepts of Engineering, Principles of Human Services, or course taken in the summer for high school credit will have space in the 4-year plan to take additional courses. Some examples may show a course taken in 8th grade.

- World Geography or World History must be taken; however, both are recommended.
- PreAP/AP courses can be substituted for required academic courses/credits if desired.
- Math and science courses can vary in many examples. Algebra 2, Chemistry and Physics are often used in the examples, but these are specified requirements only under the STEM endorsement.
- LOTE stands for Languages other than English below. While two years of the same foreign language are required, Levels 3 and 4 are also encouraged.

Example: Student pursuing the **CTE Engineering** option for a **STEM** endorsement

8 th	9 th	10 th	11 th	12 th
1.	English 1	English 2	English 3	English 4
2.	Algebra 1	Geometry	Algebra 2	4th math
3.	Biology	Chemistry	Physics	Env Systems
4.	World Geo or other	World History	US History	Govt/Economics
5.	LOTE 1	LOTE 2	Health/Speech*	Elective
6.	PE or Athletics	Fine Art	Elective	Elective
7.	Principles of Applied Engineering**	Engineering Design & Presentation	Engineering Science***	Pract in STEM

**Professional Communications (hereafter called speech), Theatre 1, (full year course), Teen Leadership, Professional Standards of Agribusiness, Debate, Oral Interpretation. AP Seminar, or Dual credit Speech can substitute for the communication skills component towards graduation in all plans.*

***Principals of Applied Engineering was formerly titled Concepts of Engineering and this pathway can begin in grade 8.*

****Engineering Science was formerly titled Principles of Engineering.*

Example: Student pursuing **Advanced Math STEM** endorsement. Student would also qualify for **Arts & Humanities** endorsement with 4 years/credits of Band.

8 th	9 th	10 th	11 th	12 th
1.	English 1	English 2	English 3	English 4
2.	Algebra 1	Geometry	Algebra 2	AP Calculus
3.	Biology	Chemistry	AP Physics 1	AP Chemistry
4.	World Geo or other	World History	US History	Govt/Economics
5.	Band 1*	Band 2*	Band 3	Band 4
6.	LOTE 1	LOTE 2	Health/Speech	Elective
7.	Elective	Elective	Elective	Elective

**Band satisfies the PE credit requirement in the fall semesters of the first two years, and the Fine Art credit requirement in the spring semesters of the first two years. All four band courses yield an Arts and Humanities endorsement.*

Note: The Math STEM endorsement requires a total of 5 math credits including Algebra 1, Geometry, and Algebra 2, and at least 2 additional math credits for which Algebra 2 is a prerequisite.

Example: Student pursuing **Science STEM** endorsement while taking both Orchestra and Athletics for all four years. Student would also qualify for the **Arts & Humanities** endorsement with 4 years/credits of Orchestra.

8 th	9 th	10 th	11 th	12 th
1.	English 1	English 2	English 3	English 4
2.	Algebra 1	Geometry	Algebra 2	4th math
3.	Biology	Chemistry	Physics	Anatomy & Physiology*
4.	World Geo or other	World History	US History	Govt/Economics
5.	Orchestra 1	Orchestra 2	Orchestra 3	Orchestra 4
6.	Athletics	Athletics	Athletics	Athletics
7.	LOTE 1	LOTE 2	Health/Speech	AP Chemistry*

*4th and 5th science credits can vary in addition to the completion of Biology, Chemistry and Physics.

Example: Student pursuing **Computer Science STEM** endorsement.

8 th	9 th	10 th	11 th	12 th
1.	English 1	English 2	English 3	English 4
2. Algebra 1	Geometry PreAP	Algebra 2	Pre-calculus	AP Calculus AB
3.	World Geo or other	World History	US History	Govt/Economics
4.	Biology	Chemistry	Physics	AP Environ Science
5.	PE	Fine Art	Health/Speech	Elective
6.	AP Comp Sci Principles or Computer Science	AP Computer Science	Comp Sci-Data Structures PreAP	Comp Sci-Independent Study PreAP
7.	LOTE 1	LOTE 2	LOTE 3/Elective	Elective

Note: Computer Science Mobile Applications is a course that can be taken after Computer Science 1 in this pathway. AP Computer Science A has a pre or co-requisite of Algebra II or Geometry PreAP. AP Computer Science Principles will be a prerequisite for AP Computer Science beginning in 2018/19. See course catalog for all computer science course descriptions and pre-requisites. Pathway may vary.

Example: Student pursuing **Combination STEM** with credits from up to 2 STEM categories while taking Dance Team for 4 years/credits. Student would also qualify for **Arts & Humanities** endorsement with 4 years/credits of Dance.

8 th	9 th	10 th	11 th	12 th
1.	English 1	English 2	English 3	English 4
2. Algebra 1	Geometry	Algebra 2	Pre-calculus	AP Statistics
3.	World Geo or other	World History	US History	Govt/Economics
4.	Biology	Chemistry	Physics	AP Chemistry
5.	Computer Science	Elective	Elective	AP Biology
6.	LOTE 1	LOTE 2	LOTE3/elective	Health/Speech
7.	Dance 1	Dance 2	Dance 3	Dance 4

*The combination from up to 2 categories example above includes 3 additional credits in the STEM categories of Math and Science.

Example: Student pursuing the **Business & Industry** endorsement with a course of study in the **Business Management & Administration** career cluster.

8 th	9 th	10 th	11 th	12 th
1.	English 1	English 2	English 3	English 4
2.	Algebra 1	Geometry	Algebra 2	4th math
3.	World Geo or other	World History	US History	Govt/Economics
4.	Biology	IPC	Chemistry	4 th science
5.	PE	Fine Art	Health/Speech	Elective
6.	LOTE 1	LOTE 2	Elective	Pract in Business Management*
7.	Principle of Business, Marketing & Finance	Bus. Information Management	Bus. Info. Mgmt 2 or Business Law	Practicum- Business Management

*Practicum in Business Management can be taken as either a 2-credit or a 3-credit course. Students must provide their own transportation.

Example: Student pursuing the **Business & Industry** endorsement with a course of study in the **Agriculture/Animal Systems** career cluster.

8 th	9 th	10 th	11 th	12 th
1.	English 1	English 2	English 3	English 4
2.	Algebra 1	Geometry	Algebra 2	4th math
3.	Biology	Chemistry	Physics	Elective
4.	World Geo or other	World History	US History	Govt/Economics
5.	LOTE 1	LOTE 2	Fine Art	Health/Prof Standards in Agribusiness**
6.	Prin of Ag, Food & Nat Resources	Livestock Production	Equine Science/***/ Small Animal Mgmt.	Adv Animal Science*
7.	PE	Elective	Elective	Elective

*Advanced Animal Science counts as the 4th science credit as well as the required advanced Agriculture required credit for this specific pathway.

**Professional Standards in Agribusiness satisfies as the communication skills (Speech) component.

***Wildlife, Fisheries & Ecology Management is another one credit course that could be taken in this endorsement path.

Example: Student pursuing the **Business & Industry** endorsement with a course of study in the **Hospitality & Tourism-Hotel & Restaurant Management** career cluster

8 th	9 th	10 th	11 th	12 th
1.	English 1	English 2	English 3	English 4
2.	Algebra 1	Geometry	Algebra 2	4th math
3.	Biology	Chemistry	Physics	Earth & Space Sci
4.	World Geo or other	World History	US History	Govt/Economics
5.	LOTE 1	LOTE 2	Fine Art	Elective
6.	PE	Health/Speech	Hospitality Services* Hotel/Rest Mgmt	Pract in Hospitality Services*
7.	Principles of Human Services	Nutrition & Wellness/ Interpersonal Studies	Hospitality Services	Pract in Hospitality

*Hospitality Services – Hotel & Restaurant Management and Practicum in Hospitality are both 2-credit courses offered at Miller Career & Technology Center. This Business & Industry endorsement is earned by taking both Hospitality courses in 11th-12th grades with no additional business courses required.

Example: Student pursuing the **Business & Industry** endorsement with a course of study in the **Marketing** career cluster.

8 th	9 th	10 th	11 th	12 th
1.	English 1	English 2	English 3	English 4
2.	Algebra 1	Geometry	Algebra 2	4th math
3.	Biology	Chemistry	Aquatic Science	Environ. Systems
4.	World Geo or other	World History	US History	Govt/Economics
5.	LOTE 1	LOTE2	Fine Art	Health/Speech
6.	PE	Elective		Career Prep**
7.	Principles of Business, Marketing & Finance	Entrepreneurship	Sports Entertainment Marketing* Fashion Marketing	Career Prep**

* Students who take a fall semester of Sports Entertainment Marketing (A) may also take Sports Entertainment Marketing (B) in lieu of Fashion Marketing. **Career Prep is listed as the advanced credit because no other credit is specified as advanced for the Marketing Career cluster.

Example: Student pursuing the **Business & Industry** endorsement with a course of study in the **Information Technology** career cluster.

8 th	9 th	10 th	11 th	12 th
1.	English 1	English 2	English 3	English 4
2.	Algebra 1	Geometry	Algebra 2	Pre-calculus
3.	Biology	Chemistry	Physics	4 th science
4.	World Geo or other	World History	US History	Govt/Economics
5.	LOTE 1	LOTE 2	Health/Speech	Elective
6.	PE	Elective	Internetworking Tech I	Internetworking Tech II*
7.	Digital Art & Animation**	Web Design	Internetworking Tech I	Internetworking Tech II*

*Cyber Security I and II could be taken in lieu of Internetworking Tech II. These courses are offered at Miller Career & Technology Center.

**Digital Arts & Animation can count as a fine arts credit or any other fine arts course could be chosen.

Example: Student pursuing the **Business & Industry** endorsement with a course of study in the **Architecture & Construction** career cluster.

8 th	9 th	10 th	11 th	12 th
1.	English 1	English 2	English 3	English 4
2. Algebra 1	Geometry	Algebra 2	Pre-calculus	AP Calculus
3.	Biology	Chemistry	Physics	AP Environ. Science
4.	World Geo or other	World History	US History	Govt/Economics
5.	LOTE 1	LOTE 2	Health/Speech	Elective
6.	PE	Interior Design	Adv. Arch Design**	Elective <u>or</u> Pract in Architectural Design***
7. Principles of Applied Engineering*	Fine Art	Architectural Design	Adv. Arch Design	Elective <u>or</u> Pract in Architectural Design***

*Principles of Applied Engineering is recommended in this path. This course was formerly titled Concepts of Engineering.

**Advanced

Architectural Design is a 2-credit course that counts as the advanced course in the Architecture career cluster.

***Practicum in Architectural Design is a 2-credit course offered at Miller Career & Technology Center that counts as the advanced course in the Architecture career cluster.

Example: Student pursuing the **Business & Industry** endorsement with a course of study in the **Automotive Technology** career cluster.

8 th	9 th	10 th	11 th	12 th
1.	English 1	English 2	English 3	English 4
2.	Algebra 1	Geometry	Financial Math	Algebra 2
3.	Biology	Chemistry	Physics	Aquatic Science
4.	World Geo or other	World History	US History	Govt/Economics
5	LOTE 1	LOTE 2	Fine Art	Elective
6.	PE	Health/Speech	Auto Technology I- Maintenance & Light Repair	Auto Technology II- Automotive Service
7.	Principles of Business, Marketing, & Finance	Business Law/ Global Business	Auto Technology I Maintenance & Light Repair	Auto Technology II- Automotive Service

*Automotive Technology I and II are both 2-credit courses offered at Miller Career and Tech Center. A student can earn the Business & Industry endorsement by taking both Automotive Technology courses in grades 11 and 12 with no additional business courses required.

Example: Student pursuing the **Business & Industry** endorsement with a course of study in **Finance** career cluster.

8 th	9 th	10 th	11 th	12 th
1.	English 1	English 2	English 3	English 4
2.	Algebra 1	Geometry	Financial Math	Algebra 2
3.	Biology	Chemistry	Physics	Aquatic Science
4.	World Geo or other	World History	US History	Govt/Economics
5.	LOTE 1	LOTE 2	LOTE 3 or Elective	Health/Speech
6.	Prin of Business, Marketing/Finance	Accounting I	Accounting II*	Career Prep
7.	PE	Fine Art	Elective	Career Prep

*Accounting II may not make or be available on some campuses. In that case Career Prep would be taken instead for the advanced credit requirement.

Example: Student pursuing the **Arts & Humanities** endorsement through a course of study in **Choir**. This example includes four years/credits of Athletics too.

8 th	9 th	10 th	11 th	12 th
1.	English 1	English 2	English 3	English 4
2.	Algebra 1	Geometry	Algebra 2	4th math
3.	Biology	Chemistry	Physics	Env Systems
4.	World Geo or other	World History	US History	Govt/Economics
5.	Athletics	Athletics	Athletics	Athletics
6.	LOTE 1	LOTE 2	Health/Speech	Elective
7.	Choir 1*	Choir 2*	Choir 3*	Choir 4*

*Students can take four years/credits of Choir, Theatre, Technical Theatre, Band, Orchestra, Dance, or Art, or a combination from 2 of these disciplines in order to earn the Arts & Humanities endorsement.

Example: Student pursuing the **Arts & Humanities** endorsement through a course of study including **five Social Studies credits**. Student would also qualify for the **Multidisciplinary Studies** endorsement with 4 credits in each of the 4 foundation areas of English, math, science and social studies.

8 th	9 th	10 th	11 th	12 th
1.	English 1	English 2	English 3	English 4
2.	Algebra 1	Geometry	Algebra 2	4th math
3.	Biology	Chemistry	Physics	Forensic Science
4.	World Geography	World History	US History	Govt/Economics
5.	LOTE 1	LOTE 2	LOTE 3/Elective	AP European Hist
6.	PE	Health/Speech	Elective	Elective
7.	Fine Arts	Elective	Elective	Elective

Example: Student pursuing the **Arts & Humanities** endorsement through a course of study including **4 credits in one Language Other Than English**.

8 th	9 th	10 th	11 th	12 th
1.	English 1	English 2	English 3	English 4
2.	Algebra 1	Geometry	Algebra 2	4th math
3.	Biology	Chemistry	Environmental Sys.	Earth Space Sci.
4.	World Geo or other	World History	US History	Govt/Economics
5.	Spanish 1**	Spanish 2	Spanish 3 PreAP	AP Spanish Language & Culture
6.	PE	Fine Arts	Speech/Health	Elective
7.	Elective	Elective	Elective	Elective

*Students may earn the Arts & Humanities – Languages Other Than English endorsement with 4 levels/credits in the same foreign language, or with two levels/credits in one language other than English and two levels/credits in an additional language other than English

**Students who take Spanish 1 in grade 8 have the ability to complete a 5th course in Spanish entitled AP Spanish Literature & Culture.

(Note) Native speakers of Spanish may have the ability to take **Spanish for Spanish Speakers (SpSpSp)** 1 and 2 in one year. They then could take Spanish for Spanish Speakers 3 and AP Spanish Language in the following year. If desired, the student could then take AP Spanish Literature and Culture the following year. In that time span they would earn 5 credits of Spanish.

Example: Student pursuing the **Arts & Humanities** endorsement through a course of study including **four English elective credits**.

8 th	9 th	10 th	11 th	12 th
1.	English 1	English 2	English 3	English 4
2.	Algebra 1	Geometry	Algebra 2	Statistics
3.	Biology	Chemistry	Physics	Environmental Systems
4.	World Geo or other	World History	US History	Govt/Economics
5.	LOTE 1	LOTE 2	Health/Speech	Elective
6.	PE	Humanities PreAP	Independent Eng. I PreAP-Texas Academic Decathlon**	Independent Eng. II PreAP- Texas Academic Decathlon**
7.	Fine Art	Elective	Elective	Elective

Students may earn up to three credits of Academic Decathlon towards the Arts & Humanities endorsement.

*English 4 or AP English Lit count as one of the four English electives. Dual Credit English does NOT count as an English elective towards this Arts & Humanities path.

**Other courses that may be used include Creative Writing and Literary Genres.

Example: Student pursuing the **Public Services** endorsement through a course of study in the **Health Science** career cluster.

8 th	9 th	10 th	11 th	12 th
1.	English 1	English 2	English 3	English 4
2. Algebra 1	Geometry	Algebra 1	Pre-calculus	AP Calculus
3.	Biology	Chemistry	Physics	AP Biology
4.	World Geo or other	World History	US History	Govt/Economics
5.	LOTE 1	LOTE 2	Speech/Elective	Elective
6.	PE	Fine Art	Elective	Clinical Rotation- Pract-Heath Science*
7.	Medical Terminology	Prin of Health Science (meets Katy ISD health requirement)	Health Science Theory	Clinical Rotation- Pract-Heath Science*

* The Clinical Rotation Practicum is offered at both the home campus and at Miller Career & Technology Center. Other options for Practicum in Health Sciences are Pharmacy Tech, and EMT-Basic offered at Miller Career & Technology Center. Each practicum is 2-credits. Students must provide their own transportation to the assigned campus or MCTC as indicated in the course catalog.

Note: The application is competitive for each senior level Health Science Practicum. Enrollment in the prerequisite courses does not guarantee admission to the Practicum. Be advised that completion of a single prerequisite and the practicum course does not complete the Health Science pathway for the Public Services Endorsement.

Note 2: Anatomy and Physiology can be taken as the Advanced CTE course in lieu of the Clinical Rotation Practicum if needed or desired.

Example: Student pursuing the **Public Services** endorsement through a course of study in the **Cosmetology – Human Services** career cluster.

8 th	9 th	10 th	11 th	12 th
1.	English 1	English 2	English 3	English 4
2.	Algebra 1	Geometry	Financial Math	Algebra 2
3.	Biology	Chemistry	Physics	Anatomy & Physiology
4.	World Geo or other	World History	US History	Govt/Economics
5.	LOTE 1	LOTE 2	Introduction to Cosmetology	Cosmetology II
6.	PE	Fine Art	Cosmetology 1	Cosmetology II
7. Principles of Human Services*	Health/Speech	Elective	Cosmetology 1	Cosmetology Design & Color Theory

Cosmetology 1 and 2 are each 3-credit courses offered at Miller Career & Technology Center. Students who take the 2-year program in 11th–12th grades and who accrue 1000 hours are eligible to take the state licensing exam.

*Principles of Human Services is not required for the Public Services–Cosmetology Endorsement, but is a complementary course to many of the Public Services endorsements.

Example: Student pursuing the **Public Services** endorsement through a course of study in the **Education & Training** career cluster.

8 th	9 th	10 th	11 th	12 th
1.	English 1	English 2	English 3	English 4
2.	Algebra 1	Geometry	Algebra 2	4th math
3.	Biology	Chemistry	Physics	Anatomy & Physiology
4.	World Geo or other	World History	US History	Govt/Economics
5.	LOTE 1	LOTE 2	Elective	Fine Art
6.	PE	Health/Speech	Instructional Practices in Education**	Pract in Education and Training*** or elective
7. Principles of Human Services*	Principles of Education and Training	Child Development	Instructional Practices in Education**	Pract in Education and Training*** or elective.

**Principles of Human Services is not required for the Public Services—Education and Training Endorsement, but is a complementary course to many of the Public Services endorsements.*

***Instructional Practices in Education is offered at Miller Career & Technology Center and may be taken in 11th or 12th grade. Students must provide their own transportation for this course.*

****An additional 2 credit course entitled Practicum in Education may be taken after Instructional Practices in Education for those students wanting a second year of field experience through Miller Career Center.*

Example: Student pursuing the **Public Services** endorsement through a course of study in the **Law, Public Safety, Corrections, and Security** career cluster.

8 th	9 th	10 th	11 th	12 th
1.	English 1	English 2	English 3	English 4
2.	Algebra 1	Geometry	Algebra 2	4th math
3.	Biology	Chemistry	Physics	Forensic Science
4.	World Geo or other	World History	US History	Govt/Economics
5.	LOTE 1	LOTE 2	Fine Art	Elective
6.	PE	Health/Speech	Law Enforcement I	Law Enforcement II**
7.	Principles of Human Services	Interpersonal Studies	Court Systems and Practices	Special Topics in SS Civic Engagement/ Criminal Justice

**Principles of Human Services is not required for the Public Services-Law Endorsement, but is a complementary course to many of the Public Services endorsements.*

***Both years of the Law Enforcement program, including Law Enforcement 1 and 2, Court Systems & Practices and Special Topics in Social Studies are required for earning this endorsement. Law Enforcement courses are offered at Miller Career & Technology Center. Students must provide their own transportation.*

Example: Student pursuing the **Multidisciplinary** endorsement through a course of study including **4 credits in the 4 foundation areas** (English- including traditional English 4, Math, Science-including Chemistry or Physics, and Social Studies.) Student would also qualify for the **Arts & Humanities** endorsement with 4 years/credits of Orchestra in this example.

8 th	9 th	10 th	11 th	12 th
1.	English 1	English 2	English 3	English 4
2.	Algebra 1	Geometry	Algebra 2	Pre-calculus
3.	Biology	Chemistry	Physics	Earth Space Science
4.	World Geography	World History	US History	Govt/Economics
5.	LOTE 1	LOTE 2	Elective	Elective
6.	PE	Health/Speech	Elective	Elective
7.	Orchestra	Orchestra	Orchestra	Orchestra

This example shows a student taking four years of Orchestra; however, any 4-year/4-credit program of study in Fine Arts could be substituted.

Example: Student pursuing the **Multidisciplinary** endorsement through a course of study including **4 credits in AP or Dual Credit in the areas of English, math, science, social studies, economics, languages other than English, or fine arts.**

8 th	9 th	10 th	11 th	12 th
1.	PreAP English 1	PreAP English 2	English 3	Dual Credit English IV
2.	Algebra	Geometry	Algebra 2	Discrete Math
3.	Biology	Chemistry	Physics	Environmental Systems
4.	World Geo or other	World History	AP US History	Govt/Economics
5.	French 1	French 2	French 3 PreAP	AP French
6.	PE	Health/Speech	Elective	Elective
7.	Art 1	Art 2-Drawing 1	Art 3-Drawing 2	AP Studio Art-Drawing

This example shows Dual Credit English, AP US History, AP French, and AP Studio ART Drawing. Combinations are endless for the Multidisciplinary Studies endorsement.

Example: Student pursuing the **Multidisciplinary** endorsement through a course of study including four advanced courses that **prepare student to enter workforce successfully or postsecondary education without remediation** from within one endorsement area or among various endorsement areas.

8 th	9 th	10 th	11 th	12 th
1.	English 1	English 2	English 3	English 4
2.	Algebra 1	Geometry	Financial Math	College Prep Math
3.	Biology	IPC	Chemistry	Aquatic Science
4.	PE	World History	US History	Govt/Economics
5.	LOTE 1	LOTE 2	Elective	Elective
6.	Health/Speech	Digital Graphics	BIMM	Career Prep
7.	Prin of Ag, Food & Nat Resources	Prin Floral Design	Teen Leadership/ Nutrition & Wellness	Career Prep

This example shows 4 credits of English, 4 math (College Prep Math may be taken as a 4th math), 4 sciences, 3 social studies, and courses that would prepare the student for work in a variety of elements as well as allow the student to be college-ready without the need for remediation.