

The New Graduation Plans in Humble ISD

Updated March 2014



“Our goals can only be reached through a vehicle of a plan, in which we must fervently believe, and upon which we must vigorously act.

There is no other route to success.”

~Pablo Picasso

Three New Graduation Plans

- ❖ Foundation High School Program (FHSP)
- ❖ Foundation High School Program with an Endorsement
- ❖ Distinguished Level of Achievement



Comparison of Graduation Plans

	Minimum High School Plan	Recommended High School Plan	Distinguished Achievement Plan	Foundation High School Program (FHSP)	FHSP+Endorsement	FHSP+Distinguished Level of Achievement
How many total credits are required on this plan?	22	26	26	22	26	26
What are the core credit requirements for this plan?	English- 4.0 Math- 3.0 Science- 2.0 Soc Studies- 4.0	English- 4.0 Math- 4.0 Science- 4.0 Soc Studies- 4.0	English- 4.0 Math- 4.0 Science- 4.0 Soc Studies- 4.0	English- 4.0 Math- 3.0 Science- 3.0 Soc Studies- 3.0	English- 4.0 Math- 4.0 Science- 4.0 Soc Studies- 3.0(+)	English- 4.0 Math- 4.0 Science- 4.0 Soc Studies- 3.0(+)
What are the foreign language requirements?	None	2 levels of the same foreign language	3 levels of the same foreign language	2 levels of the same foreign language with some exceptions	2 levels of the same foreign language with some exceptions	2 levels of the same foreign language with some exceptions
What effect does this plan have on college admissions?	May not be eligible to enter a university upon graduation	Eligible for admission to a TX university	Makes students more competitive for admission to a TX university	Eligible for admission to a TX university	Makes students more competitive for admission to any university and program	Makes students more competitive for admission to any university and program
Are students eligible for the Top Ten Percent?	No	Yes	Yes	No	No	Yes
Are students eligible for the Texas Grant?	No	Yes	Yes	Yes	Yes	Yes
Which students can choose this plan?	Students who entered high school prior to 14-15	Students who entered high school prior to 14-15	Students who entered high school prior to 14-15	Cohorts 2015, 2016, and beyond	Cohorts 2015, 2016, and beyond	Cohorts 2015, 2016, and beyond
Is this plan flexible enough to meet my student's unique needs?	Offers very little flexibility	Offers very little flexibility	Offers very little flexibility	Offers very little flexibility	Offers a number of plans that are designed to match each student's interests	Offers a number of plans that are designed to match each student's interests but requires all students to complete Alg 2
Are there any extra requirements for this plan?	No	No	Yes, 4 Advanced Measures	No, but students are eligible for performance acknowledgements	No, but students are eligible for performance acknowledgements	No, but students are eligible for performance acknowledgements
Does this plan affect the look of the diploma?	All students' diplomas look the same regardless of the plan	All students' diplomas look the same regardless of the plan	All students' diplomas look the same regardless of the plan	Students' diplomas will designate the endorsement and performance acknowledgements	Students' diplomas will designate the endorsement and performance acknowledgements	Students' diplomas will designate the endorsement and performance acknowledgements
Is there anything else I need to know?	Must meet certain requirements to choose this plan with parent permission			May choose after 10 th grade ONLY with parent permission	5 endorsement options: STEM Business and Industry Public Service Arts and Humanities Multi-disciplinary	Must earn endorsement

Endorsements

“A student entering Grade 9 in the 2014-2015 school year and thereafter shall enroll in the courses necessary to complete the curriculum requirements for the Foundation High School Program specified in Section 74.12 of this title and the curriculum requirements for at least one endorsement specified in Section 74.13 of this title (relating to Endorsements).”

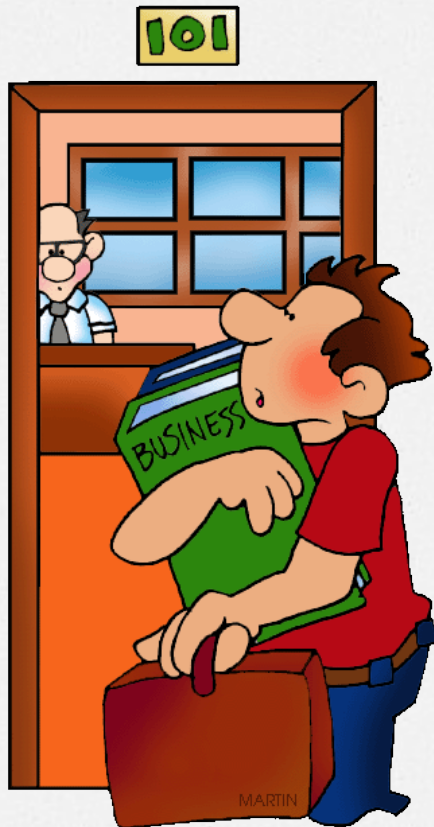
Text of New 19 TAC

So, what's an endorsement?



- ❖ An endorsement is a broad area of study
- ❖ It's a bit like a college major

Why are students being pushed to choose a career pathway?



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- ❖ Students with career goals are 16% more likely to graduate from high school.
- ❖ Students who participate in CTE courses are 30% more likely to complete high school.
- ❖ Students with well-defined career goals are more likely to persist in college.
- ❖ Students with well-defined career goals are more likely to attain jobs in their chosen career field after college.

Distinguished Level of Achievement (DLA)

“A student may earn a distinguished level of achievement by successfully completing the curriculum requirements for the Foundation High School Program and the curriculum requirements for at least one endorsement required by the Texas Education code (TEC)...including four credits in science and four credits in mathematics to include Algebra II.

Text of New 19 TAC



English Graduation Requirements

Four credits are required:

- ❖ English I (EOC)
- ❖ English II (EOC)
- ❖ English III
- ❖ Additional English

Recommendations:

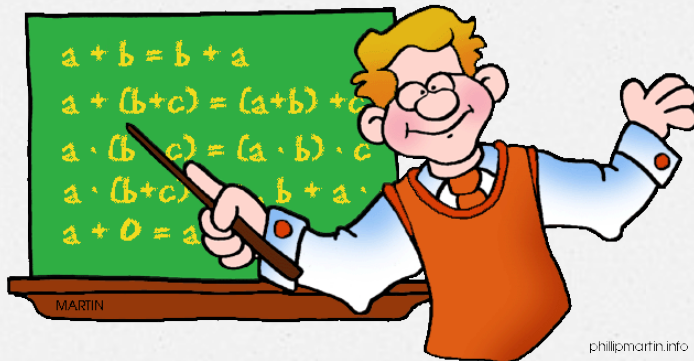
1. Choose a challenging level of rigor that prepares you for your career goals.
2. The 4th English should be a bridge between high school and post-secondary goals.



Math Graduation Requirements

4 credits are required:

- ❖ Two of the credits must consist of Algebra I (EOC) and Geometry (Algebra I is a prerequisite for Geometry)
- ❖ The additional 2 credits may be selected from a number of math courses offered in Humble ISD



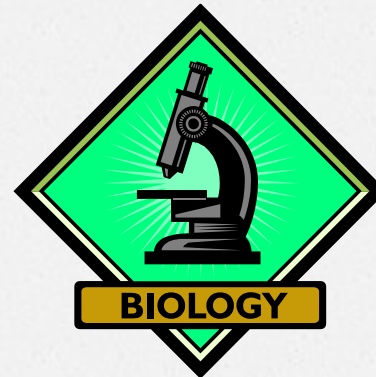
Recommendations:

1. Choose challenging math courses that will prepare you for your career goals.
2. The 4th math course should be a bridge between high school and post-secondary goals.

Science Graduation Requirements

Four credits are required:

- ❖ One credit must consist of Biology (EOC), AP Biology, or IB Biology
- ❖ One credit must be selected from the following laboratory-based courses:
 1. IPC
 2. Chemistry
 3. AP Chemistry
 4. IB Chemistry
 5. Physics
 6. Principles of Physics
 7. AP Physics
 8. IB Physics
- ❖ The other 2 credits may be chosen from a number of science and CTE courses



Social Studies Graduation Requirements

Three credits are required:

- ❖ One credit must consist of United States History Studies Since 1877 (EOC)
- ❖ One credit must consist of United States Government (.5 credit) and Economics with Emphasis on the Free Enterprise System and Its Benefits (.5 credit)
- ❖ The third credit may be selected from the following courses:
 1. World History Studies
 2. World Geography Studies



Other Graduation Requirements. . .

- ❖ Two credits of LOTE which must be any two levels in the same language or in computer programming languages
- ❖ One credit of physical education
- ❖ One credit of fine art
- ❖ Students must have a total of 26 credits



Notes on Endorsements

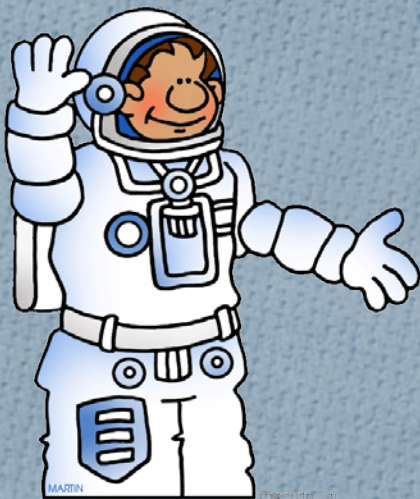
- ❖ A student shall specify in writing an endorsement the student intends to earn upon entering Grade 9.
- ❖ A district shall permit a student to enroll in courses under more than one endorsement before the student's junior year and to choose, at any time, to earn an endorsement other than the endorsement the student previously indicated.
- ❖ A student must earn at least 26 credits to earn an endorsement.
- ❖ An endorsement shows colleges and employers that the student is prepared to succeed at the postsecondary level and has a clear vision of what he or she wants to accomplish in school and in life!

Science, Technology, Engineering, and Mathematics (STEM) Endorsement

Students pursuing a STEM Endorsement must take Algebra II as their third math course and they must choose Chemistry and Physics as 2 of their science courses.

Humble ISD offers 3 options for earning a STEM Endorsement:

1. Students can take a coherent sequence of course in the STEM cluster for 4 credits.
2. In addition to the 4 math courses already required, students can take an additional math course.
3. In addition to the 4 science courses already required, students can take an additional science course.



Top Paying Careers

Occupation	Average Wage	Entry-level Wage	Experienced Wage
Petroleum Engineer	\$80.85	\$33.20	\$74.67
Geoscientist	\$59.48	\$31.01	\$73.72
Natural Sciences Manager	\$56.72	\$36.31	\$66.93
Agricultural Engineer	\$51.10	\$27.34	\$61.49
Physicist	\$45.96	\$24.46	\$56.71
Civil Engineer	\$40.41	\$24.54	\$48.34
Biochemist	\$38.95	\$20.82	\$48.01
Atmospheric and Space Scientist	\$32.76	\$12.44	\$42.92
Materials Scientist	\$34.84	\$19.40	\$42.56
Biomedical Engineer	\$29.15	\$18.17	\$34.64

What is a coherent sequence of courses for STEM Engineering Cluster?

Students may earn an endorsement in the STEM cluster by successfully completing 4 or more credits.

Suggested Grade Level	Course	Credit(s)
9	Principles of Architecture and Construction	1
10	Engineering Design	1
	Concepts of Engineering & Tech	1
11	Robotics & Animation	1
	Principles of Physics	1
	Aeroscience	1
12	Practicum	2



Business & Industry Endorsement

Students can write their own ticket to success in the Business and Industry Endorsement. Nearly half of all jobs are in managerial and professional occupations, and nearly one-fourth of all workers are self-employed.

Humble ISD offers 13 different pathways for students who would like to pursue a Business and Industry Endorsement

Occupation	Average Wage	Entry-level Wage	Experienced Wage
Chief Executive	\$79.81	\$7.00	N/A
Financial Manager	\$53.95	\$26.47	\$89.93
Sales Manager	\$49.80	\$24.47	\$88.28
Agent/Manager of Artists, Performers, etc	\$41.86	\$9.06	\$86.41
Human Resources Manager	\$51.37	\$30.11	\$85.95
General Operations Manager	\$51.86	\$21.15	\$86.39
Training and Development Manager	\$50.85	\$26.33	\$80.10
Management Specialist	\$42.71	\$20.89	\$68.50
Property Manager	\$31.57	\$14.10	\$56.45
Public Relations Manager	\$64.89	\$30.50	\$72.92



What is a coherent sequence of courses for the B&I Ag cluster?

Students may earn a Business & Industry endorsement in the Agriculture and Natural Resources cluster by successfully completing 4 or more credits.



Suggested Grade Level	Course	Credit(s)
9	Principles of Agriculture	1
10	Professional Communications	.5
	Wildlife	.5
	Horticulture Science	.5
	Agricultural Mechanics & Metal Tech	1
	Small Animal	.5
11	Food Technology & Safety	.5
	Livestock Production	.5
	Floral Design	1
	Agricultural Facilities Design and Fabrication	1
12	Adv. Animal Science	1
	Landscape	.5
	Practicum	2

What is a coherent sequence of courses for the B&I Architecture and Construction cluster?

Students may earn a Business & Industry endorsement in the Architecture and Construction cluster by successfully completing 4 or more credits.

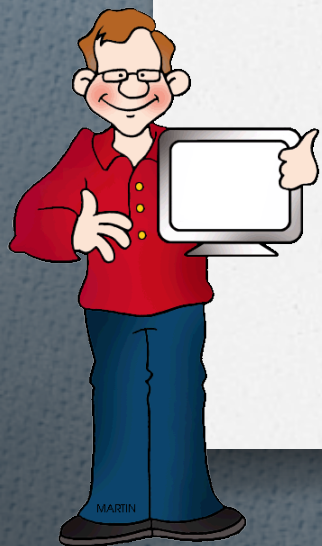
Suggested Grade Level	Course	Credit(s)
9	Principles of Architecture and Construction	1
10	Architectural Design	1
11	Advanced Architectural Design	2
	Construction Tech	1
	Interior Design	1
12	Advanced Construction Tech	2
	Advanced Interior Design	2
	Practicum	2



What is a coherent sequence of courses for the B&I Arts, AV Tech, and Communications cluster?

Suggested Grade Level	Course	Credit(s)
9	Principles of Arts, AV Tech, and Communications	.5
	Professional Communications	.5
10	Graphic Design	1
	Audio Video Production	1
11	Advanced Graphic Design	2
	Advanced Audio Video Production	2
	Animation	1
12	Advanced Animation	2
	Practicum	2

Students may earn a Business & Industry endorsement in the Arts, AV Tech, and Communications cluster by successfully completing 4 or more credits.



What is a coherent sequence of courses for the B&I Business cluster?

Suggested Grade Level	Course	Credit(s)
9	Principles of Business Management & Administration	.5
	Principles of Hospitality & Tourism	.5
	Touch System Data Entry	.5
9, 10	Business Information Management I	1
10	Energy Power and Transportation	1
	Hotel Management	.5
	Restaurant Management	.5
11	Global Business	.5
	Virtual Business	.5
	Business Law	.5
	Business Information Management II	1
12	Practicum	2

Students may earn a Business & Industry endorsement in the Business cluster by successfully completing 4 or more credits.



What is a coherent sequence of courses for the B&I Finance cluster?

Suggested Grade Level	Course	Credit(s)
9	Principles of Business Marketing & Finance	.5
	Principles of Hospitality & Tourism	.5
9, 10	Business Information Management I	1
10	Money Matters	.5
	Professional Communications	.5
	Hotel Management	.5
	Restaurant Management	.5
11	Banking and Financial Services	.5
	Accounting	1
	Business Information Management II	1
12	Accounting II	1
	Practicum	2

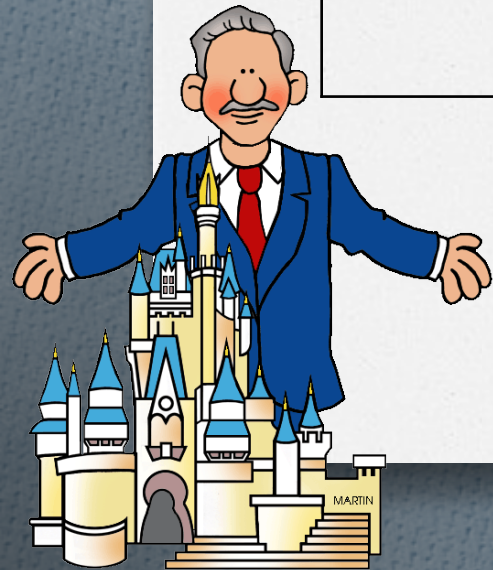
Students may earn a Business & Industry endorsement in the Finance cluster by successfully completing 4 or more credits.



What is a coherent sequence of courses for the B&I Hospitality & Tourism cluster?

Suggested Grade Level	Course	Credit(s)
9	Principles of Hospitality & Tourism	.5
	Hotel Management	.5
	Restaurant Management	.5
11	Hospitality Services	2
	Culinary Arts	2
12	Practicum at Marriott (Hotel Program)	2
	Practicum	2

Students may earn a Business & Industry endorsement in the Hospitality and Tourism cluster by successfully completing 4 or more credits.



What is a coherent sequence of courses for the B&I Information Technology cluster?

Suggested Grade Level	Course	Credit(s)
9	Principles of Information Technology(P)	1
10, 11	Computer Maintenance	1
	Computer Programming	1
	Digital & Interactive Multimedia	.5
	Web Tech	.5
	Telecommunications & Networking	1
11, 12	Computer Technician	2
	Advanced Computer Programming (P)	1
	CISCO Internetworking Technologies I	1
	CISCO Internetworking Technologies II	1

Students may earn a Business & Industry endorsement in the Information Technology cluster by successfully completing 4 or more credits.



What is a coherent sequence of courses for the B&I Manufacturing cluster?



Suggested Grade Level	Course	Credit(s)
8	Principles of Manufacturing	.5
9	Principles of Agriculture	1
	Principles of Architecture and Construction	1
10, 11	Welding	2
11, 12	Welding II	2

Students may earn an endorsement in the manufacturing cluster by successfully completing 4 or more credits. If the student did not successfully complete Principles of Manufacturing in middle school, he/she may take Principles of Agriculture or Principles of Architecture.

What is a coherent sequence of courses for the B&I Marketing cluster?

Suggested Grade Level	Course	Credit(s)
9	Principles of Business Marketing & Finance	1
10	Retailing & E-tailing	.5
	Sports & Entertainment Marketing	.5
11	Marketing Dynamics	3
12	Practicum Marketing Dynamics	3

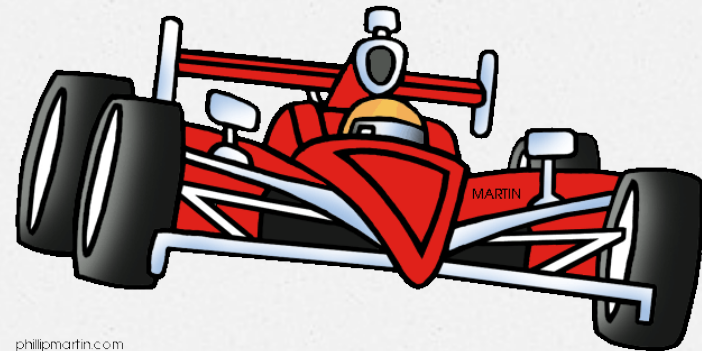


Students may earn a Business & Industry endorsement in the Marketing cluster by successfully completing 4 or more credits.

What is a coherent sequence of courses for the B&I Transportation, Distribution, and Logistics cluster?

Suggested Grade Level	Course	Credit(s)
9, 10	Energy, Power & Transportation	1
10, 11	Collision Repair & Refinishing	2
11, 12	Automotive Tech	2
	Advanced Collision Repair & Refinishing	2
12	Advanced Automotive Tech	2

Students may earn a Business & Industry endorsement in the Transportation, Distribution, and Logistics cluster by successfully completing 4 or more credits.



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What is a coherent sequence of courses for the B&I English Option?

Students choosing to use the English option to achieve the B & I endorsement will need: four English elective credits by selecting courses from Chapter 110 of this title to include three levels in one of the following areas:

- ❖ advanced broadcast journalism; or
- ❖ newspaper/yearbook; or
- ❖ public speaking; or
- ❖ debate.



Taken from the Text of Proposed New 19 TAC

Public Service Endorsement

Students who desire to make a lasting contribution to society by serving their fellow man should consider the Public Service Endorsement. This endorsement offers some of the most in-demand careers in the areas of Health Science, Education, Law, and Public Service.

Humble ISD offers 5 different pathways for students interested in pursuing a Public Service Endorsement.



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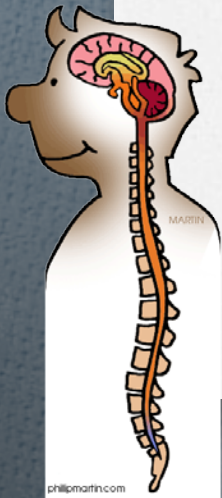
Top Paying Careers

Occupation	Average Wage	Entry-level Wage	Experienced Wage
Physician	\$111.49	\$55.30	\$224.36
Dentist	\$73.82	\$36.28	92.60
Chiropractors	\$36.20	\$17.03	\$45.78
Medical and health Services Manager	\$32.24	\$23.60	\$45.56
Sales Engineers	\$45.24	\$27.82	\$53.94
Pharmacists	\$52.23	\$42.68	\$57.09
Medical Scientist	\$25.97	\$16.61	\$30.65
Physical Therapist	\$37.56	\$26.25	\$43.52
Dental Hygienist	\$32.02	\$23.87	\$36.10
Nurse	\$29.70	\$22.04	\$33.53

What is a coherent sequence of courses for Public Service Health Science Cluster?

Students may earn a STEM endorsement in the Health Science cluster by successfully completing 4 or more credits. Students selecting either the pharm tech or LVN pathway should supplement with courses in the general health science pathway to achieve 4 credits.

Suggested Grade Level	Course	Credit(s)
9, 10	Business Information Management II	1
10	Principles of Health Science	1
	Medical Terminology	.5
11	Health Science	2
12	Anatomy & Physiology	1
	Pharmacy Technician	1
	Certified Nursing Assistant	1



What is a coherent sequence of courses for the Public Service endorsement Education and Training cluster?

Suggested Grade Level	Course	Credit(s)
9, 10	Principles of Education & Training	.5
	Business Information Management	1
	Child Development	.5
11, 12	Instructional Practices in Education & Training	2
12	Practicum	2

Students may earn a Public Service endorsement in the Education and Training cluster by successfully completing 4 or more credits.



What is a coherent sequence of courses for the Public Service endorsement Human Services cluster?

Suggested Grade Level	Course	Credit(s)
9, 10	Principles of Human Services	.5
	Principles of Education	.5
	Child Development	.5
	Professional Communications	.5
	Intro to Cosmetology	.5
11	Cosmetology I	3
12	Practicum	2
	Cosmetology II	3



Students may earn a Public Service endorsement in the Human Services cluster by successfully completing 4 or more credits.

What is a coherent sequence of courses for the Public Service endorsement Law, Public Safety, Corrections, and Securities cluster?

Suggested Grade Level	Course	Credit(s)
9	Principles of Law, Public Corrections, & Security	1
10	Law Enforcement I	1
11	Court Systems & Practices	1
12	Security Services (P)	1
	Forensic Science	1
	Practicum	2

Students may earn a Public Service endorsement in the Law, Public Safety, Corrections, and Securities cluster by successfully completing 4 or more credits.



What is a coherent sequence of courses for the Public Service endorsement JROTC cluster?

Suggested Grade Level	Army Pathway	Air Force Pathway	Marines Pathway	Navy Pathway	Credit(s)
9	LET I	Aerospace Science I	Marine I	Navy Science I	1
10	LET II	Aerospace Science II	Marine II	Navy Science II	1
11	LET III	Aerospace Science III	Marine III	Navy Science III	1
12	LET IV	Aerospace Science IV	Marine IV	Navy Science IV	1
		Aerospace Science Capstone Management			1
11, 12		Aerospace Science Rocketry			1
9-12		Aerospace Drill			1


Students may earn a Public Service endorsement in the JROTC cluster by successfully completing 4 courses.



Arts and Humanities Endorsement

Students who choose an endorsement in Arts and Humanities will be designing, producing, exhibiting, performing, writing and publishing multimedia content, including visual and performing arts and design, journalism, and entertainment services. In addition, students with this endorsement may be serving as translators, ambassadors, teachers, and historians.

Humble ISD offers 4 different pathways for students interested in an Arts and Humanities Endorsement.

 Top Paying Careers

Occupation	Average Wage	Entry-level Wage	Experienced Wage
Art Director	\$38.59	\$21.65	\$47.06
Broadcast News Analyst	\$37.44	\$12.15	\$80.00
Directors and Producers	\$32.54	\$12.09	\$55.61
Film and Video Editors	\$31.63	\$12.06	\$41.41
Media/Communications Equipment	\$29.45	\$10.72	\$37.63
Technical Writers	\$28.24	\$18.63	\$33.05
Public Relations Specialist	\$27.37	\$15.33	\$33.39
Commercial and Industrial Designers	\$26.19	\$15.67	\$31.45
Writers and Authors	\$26.14	\$14.93	\$31.74
Multimedia Animator and Artist	\$25.36	\$22.86	\$37.63



Arts and Humanities Endorsement Options

A&H Studies Option	FHSP plus:						Total Credits
		Additional Math	Additional Science	A total of 5 Social Studies Courses			
	English 4.0	Math 4.0	Science 4.0	Social Studies ?	Required 4.0	Electives ?	26
A&H LOTE Option	FHSP plus:						Total Credits
		Additional Math	Additional Science		4 levels of the same LOTE including ASL OR 2 levels of the same language in one LOTE and 2 levels of a different LOTE		
	English 4.0	Math 4.0	Science 4.0	Social Studies 3.0	Required 6.0	Electives 5.0	26
A&H Fine Arts Option	FHSP plus:						Total Credits
		Additional Math	Additional Science		A coherent sequence of 4 courses in one or two of the following: Art Music Dance Theater		
	English 4.0	Math 4.0	Science 4.0	Social Studies 3.0	Required 7.0	Electives 5.0	26
A&H English Option	FHSP plus:						Total Credits
	Four English elective credits						
	English 7.0	Math 4.0	Science 4.0	Social Studies 3.0	Required 4.0	Electives 4.0	26

Distinguished Level of Achievement: Students completing the Arts and Humanities endorsement must take Algebra II as one of the 4 math requirements in order to complete the DLA and be eligible for the Top 10%.

Multi-Disciplinary Endorsement

Multi-Disciplinary Adv Course Option	FHSP plus:							Total Credits
		Additional Math	Additional Science		4 Advanced courses in any endorsement not in a coherent sequence			
		Additional Math						
	English 4.0	Math 4.0	Science 4.0	Social Studies 3.0	Required 4.0+	Electives ?	26	
Multi-Disciplinary Core Course Option	FHSP plus:							Total Credits
	English IV	Additional Math	Chemistry and/or Physics	Additional Social Studies				
		Additional Math	Additional Science					
	English 4.0	Math 4.0	Science 4.0	Social Studies 4.0	Required 4.0	Electives 6.0	26	
Multi-Disciplinary AP/IB Option	FHSP plus:							Total Credits
	AP/IB ELA Course	Additional Math	Additional Science		4 credits in AP/IB/or Dual Credit courses chosen from ELA, Math, Science, Social Studies, Fine Arts, LOTE			
		Additional Math						
	English 4.0	Math 4.0	Science 4.0	Social Studies 3.0+	Required 4.0	Electives ?	26	

Distinguished Level of Achievement: Students completing the Multi-Disciplinary endorsement must take Algebra II as one of the 4 math requirements in order to complete the DLA and be eligible for the Top 10%.

What can parents do to help?

Parents can play a key role in helping their child develop a Personal Graduation Plan by becoming partners with counselors and teachers. Parents are encouraged to learn more about endorsements and career clusters by visiting both the Humble ISD and Bridges websites frequently. At the Bridges website parents can view their child's PGP, goals, interest and values inventories and so much more! Parents can share information about their own careers and initiate career discussions with family and friends who work in a field that interests their child. Parents can volunteer to help the school district locate meaningful paid and unpaid internships for our students.

Does your child need support with study skills, organization, time management, or the college application process? If so, consider having your child sign up for the **AVID** program. You can find out information about **AVID** by contacting your child's school counselor or by visiting the **AVID** website at <http://www.humbleisd.net/domain/18>.

Together, we can make a huge impact in our young people's lives!



Bridges Helps Us Get It All Done!

www.bridges.com is the tool that Humble ISD uses to help our students explore a wide variety of career options and make plans to achieve his or her goals– from school or from home!

A motivated student who chooses a pathway is a more focused, achievement-oriented student.

- ❖ www.bridges.com
- ❖ Portfolio name: humble + 6 digit ID
(Ex: humble123456)
- ❖ Password: 6 digit ID
(Ex: 123456)



Student Sign In

Portfolio Name Site ID

Portfolio name:

Password:

[Create a new portfolio](#) [Forgot your password?](#)

Questions?

For more information:

- ❖ Visit with your child's professional school counselor at his or her campus
- ❖ Download the Endorsement One-pagers located at:
- ❖ Visit www.Bridges.com

