H O U S T O N  I N D E P E N D E N T  S C H O O L  D I S T R I C T
CAREER AND TECHNICAL EDUCATION
PROGRAMS OF STUDY

PLAN YOUR PATH
HIGH SCHOOL GRADUATION REQUIREMENTS

22 CREDITS
FOUNDATION GRADUATION PLAN

4 CREDITS
ENDORSEMENT

26 CREDITS
DISTINGUISHED LEVEL OF ACHIEVEMENT

ALGEBRA II
REQUIRED FOR ADVANCED MATH CREDIT

ENDORSEMENTS

HISD students must earn one or more endorsements as part of their graduation requirements. Endorsements consist of a related series of courses that are grouped together by content or skill set. They provide students with in-depth knowledge of a subject area. Students must select an endorsement in the ninth grade.

Students earn an endorsement by completing the sequence of courses required for the endorsement, including four credits of math and science, and two additional elective credits. It is possible for students to earn more than one endorsement.

STUDENTS CAN CHOOSE FROM 5 ENDORSEMENT AREAS

**ARTS AND HUMANITIES**
- American Sign Language
- English Language Arts
- Fine Arts: Art
- Dance
- Music
- Theater
- Languages Other Than English
- Social Studies

**BUSINESS AND INDUSTRY**
- Agriculture, Food & Natural Resources
- Architecture & Construction
- Arts, Audio/Video Technology & Communication
- Business Management
- English Electives: Broadcast Journalism, Newspaper, Public Speaking, Debate, Finance
- Hospitality & Tourism
- Information Technology
- Manufacturing
- Marketing
- Transportation Distribution & Logistics

**MULTI-DISCIPLINARY**
- Dual Credit Courses
- Four credits in each area: Math, Science, Social Studies, and English
- Four Advanced Placement (AP) Courses
- Four International Baccalaureate (IB) Courses

**PUBLIC SERVICES**
- Education & Training
- Government & Public Administration
- Health Science
- Human Services
- JROTC (Junior Reserve Officers Training Corps)
- Law, Public Safety, Corrections & Security

**S.T.E.M.**
- Advanced Mathematics
- Advanced Sciences
- Computer Science
- CTE- STEM Courses
There are 16 CTE programs of study in HISD that meet high school graduation endorsement requirements. Each of these programs of study has a career pathway that provides coherent, articulated sequences of rigorous CTE courses. Dual credit CTE courses can lead to associate degrees, baccalaureate degrees, and beyond. End of program industry-recognized certificates and/or licensures are available for most programs of study. The CTE programs of study and career pathways are identified below.

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   Plumbing
   Structural Design and Engineering
   Electrical Technology

4 ARTS, A/V TECHNOLOGY & COMMUNICATIONS
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   Graphic Design and Production
   Printing and Imaging

5 BUSINESS MANAGEMENT & ADMINISTRATION
   Business Management
   Human Resources

6 EDUCATION & TRAINING SERVICES
   Education and Training

7 FINANCE
   Banking and Securities
   Accounting

8 GOVERNMENT & PUBLIC ADMINISTRATION
   Political Science

9 HEALTH SCIENCE
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14 MANUFACTURING
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17 TRANSPORTATION, DISTRIBUTION & LOGISTICS
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   Logistics and Global Supply
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   Aviation Technology

18 FUTURES ACADEMY
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19 LINKED LEARNING
   Real-World Application
Do you enjoy gardening? Do you like working with your hands or being outdoors? Do you care for animals? Plants, farms, and animals are the main focus of agriculture, but the opportunities are huge! The Agriculture, Food & Natural Resources program of study is committed to preparing students for careers and life skills through education and training in agricultural commodities and natural resources. Agribusiness, Veterinary Sciences, and Agricultural Mechanics are available programs on campuses and can get you out of the classroom and enjoying the outdoors.

HIGH SCHOOLS OFFERING AGRICULTURE, FOOD & NATURAL RESOURCES PATHWAYS

- Austin High School
- Bellaire High School
- Booker T. Washington High School
- Chavez High School
- Furr High School
- Harper Alternative School
- Lamar High School
- Madison High School
- North Forest High School
- Worthing High School

FASTEST-GROWING CAREER OPPORTUNITIES

- Veterinary Technicians
- Agricultural Inspectors
- Forest and Conservation Workers

CERTIFICATIONS AND LICENSURES

- Certified Veterinary Assistant (CVA Level 1)
- Texas Floral Design–Level 1 Certification

HIGH-PAYING CAREERS

- Veterinarian
  - $80,000
- Agricultural Engineer
  - $70,000
- Agricultural and Food Scientist
  - $60,000

Salaries vary due to a number of factors. The yearly salary figures printed here are averages from several sources approved by the U.S. Department of Labor.
Construction is one of the fastest growing fields in Houston. From contractor, foreman, and industrial engineer to carpenter and electrician, career opportunities are endless in architecture and construction. The Architecture and Construction program of study focuses on careers in designing, planning, managing, building, and maintaining the built environment. Discover what is needed to enter the workforce through hands-on activities in safety, tool usage, building materials, codes, framing, and more. HVAC, Plumbing, Electrical Technology, Green Technology, Architectural Design, Facilities Operations, and Structural Engineering are some of the Architecture and Construction programs available on select HISD campuses.

HIGH SCHOOLS OFFERING ARCHITECTURE & CONSTRUCTION PATHWAYS

- Furr High School
- Jordan High School
- Houston MTSC
- Jones Futures Academy
- Lamar High School
- Milby High School
- Scarborough High School
- Waltrip High School
- Washington High School
- Wisdom High School

FASTEST-GROWING CAREER OPPORTUNITIES

- Construction Managers
- Civil Engineers
- Heating and Cooling Technicians

CERTIFICATIONS AND LICENSURES

- NCCER—Construction Technology
- NCCER—HVAC
- NCCER—Plumbing
- AutoCAD Certified Associate
- Certified SOLIDWORKS Associate (CSWA)

HIGH-PAYING CAREERS

- Construction Manager
  $90,000
- Civil Engineer
  $80,000
- Architect
  $70,000

Salaries vary due to a number of factors. The yearly salary figures printed here are averages from several sources approved by the U.S. Department of Labor.
Lights, Camera, Action! The Arts, A/V Technology and Communications program of study combines creativity and technology to prepare students for one of today's leading industries with a focus on careers in designing, producing, exhibiting, performing, writing, and publishing multi-media content and entertainment services. Commercial Photography, Audio/Visual Production, Printing and Imaging Technology, Environmental Communications, and Graphic Design and Production are all programs available at select HISD schools.

HIGH SCHOOLS OFFERING ARTS, A/V TECHNOLOGY & COMMUNICATIONS PATHWAYS
- Chavez High School
- Furr High School
- Heights High School
- Jordan High School
- Kashmere High School
- Lamar High School
- Milby High School
- Northside High School
- Sharpstown High School
- Waltrip High School
- Westside High School
- Yates High School

FASTEST-GROWING CAREER OPPORTUNITIES
- Audio/Visual Technicians
- Multimedia Artists and Animators
- Technical Writers

CERTIFICATIONS AND LICENSURES
- Adobe Certified Associate (ACA)–Video Communication
- Adobe Certified Associate (ACA)–Visual Communication
- Apple Final Cut Pro

HIGH-PAYING CAREERS
- Art Director
  $70,000
- Producer and Director
  $70,000
- Media Equipment Worker
  $60,000

Salaries vary due to a number of factors. The yearly salary figures printed here are averages from several sources approved by the U.S. Department of Labor.

HISD Career and Technical Education | www.HISDCareerReadiness.org
Let’s get down to business! The Business Management and Administration program of study encompasses planning, organizing, directing, and evaluating business functions essential to efficient and productive business operations. Business management and administrative career opportunities are available in every sector of the economy. From small business owners to global corporate executives, there is a need for employees with strong financial, organizational, time management, and communication skills. Global Business, Human Resources, and Business Management are among the programs offered on select HISD campuses.

HIGH SCHOOLS OFFERING BUSINESS MANAGEMENT & ADMINISTRATION PATHWAYS

- Austin High School
- Bellaire High School
- Heights High School
- Houston Academy for International Studies
- Lamar High School
- Liberty High School
- North Houston Early College
- Sterling High School
- Westside High School
- Wisdom High School

FASTEST-GROWING CAREER OPPORTUNITIES

- Human Resource Specialists
- Sales Agents and Managers
- Market Research Analysts

CERTIFICATIONS AND LICENSURES

- Microsoft Office Certified Master
- A*Star Business Fundamentals
- NOCTI-Business
- Sales Force

HIGH-PAYING CAREERS

- Chief Executive: $170,000
- Sales Manager: $75,000
- HR Manager: $70,000

Salaries vary due to a number of factors. The yearly salary figures printed here are averages from several sources approved by the U.S. Department of Labor.
Do you enjoy teaching others? Do you have patience? Do you want to help people? Educators are charged with improving the future for people of all ages. The Education and Training pathway focuses on providing education and training services for people who want to change our society for the better and make a difference in the lives of others.

**HIGH SCHOOL OFFERING EDUCATION & TRAINING SERVICES PATHWAY**

- Austin High School

**FASTEST-GROWING CAREER OPPORTUNITIES**
- Teacher
- Coaches and Recreation Instructors
- Social Worker

**CERTIFICATIONS AND LICENSURES**
- Early Childhood Education Assessment and Certification
- Pre-Professional Certification in Education Fundamentals

**HIGH-PAYING CAREERS**

- Principal
  - $100,000
- School Counselor
  - $60,000
- Teacher
  - $50,000

Salaries vary due to a number of factors. The yearly salary figures printed here are averages from several sources approved by the U.S. Department of Labor.
Money makes the world go round! Businesses need employees who can lead team projects, crunch numbers to keep costs down, and examine financial records. The Finance program of study encompasses services for financial and investment planning, banking, insurance and business financial management. Do you want to master financial, organizational, and communication skills? Accounting, Financial Planning, and Banking and Securities are all programs available at select HISD campuses.

**HIGH SCHOOLS OFFERING FINANCE PATHWAYS**

- Bellaire High School
- Heights High School
- High School for Law and Justice
- Lamar High School
- Liberty High School
- Sharpstown High School
- Westbury High School
- Westside High School

**FASTEST-GROWING CAREER OPPORTUNITIES**

- Accountants and Financial Analysts
- Loan Clerks and Bank Officers
- Financial Advisors

**CERTIFICATIONS AND LICENSURES**

- QuickBooks Certified User
- A*S*K Finance

**HIGH-PAYING CAREERS**

- **Controller**
  - $110,000
- **Actuary**
  - $80,000
- **Auditor**
  - $60,000

Salaries vary due to a number of factors. The yearly salary figures printed here are averages from several sources approved by the U.S. Department of Labor.
Hello, future POTUS (presidents of the U.S.)! Are you intrigued with American politics, international relation, or political theory? Do you want to find out what makes our government run successfully? Are you interested in running for office? The Government and Public Administration program of study will prepare you with the information you need to be informed about the U.S. political system and relations between the United States and foreign countries. Be prepared to research political ideas and analyze governments, policies, and political trends, as well as collect and analyze data from public-opinion surveys and election results. The future of America is in your hands.

HIGH SCHOOLS OFFERING GOVERNMENT AND PUBLIC ADMINISTRATION PATHWAYS

• High School for Law and Justice

FASTEST-GROWING CAREER OPPORTUNITIES

• Foreign Service Officer
• Political Science Teacher
• Paralegal

HIGH-PAYING CAREERS

U.S. Congress Member
$170,000

Political Scientist
$80,000

Urban Planner
$60,000

Salaries vary due to a number of factors. The yearly salary figures printed here are averages from several sources approved by the U.S. Department of Labor.
Are you interested in how the body moves? Do you want to save lives and make a difference? Do you love a challenge? The Health Science programs of study focus on careers in health services. Some of the fastest-growing and highest-paying careers are in the health science field. If you want to help others and love science, a health science pathway could be for you. HISD programs include Biomedical Technology, Health Science, Pharmacy Technology, Dental Assistant, Nursing, Health Informatics, and Radiology and Imaging.

HIGH SCHOOLS OFFERING HEALTH SCIENCE PATHWAYS
- Chavez High School
- DeBakey High School
- Jones Futures Academy
- Heights High School
- Long Futures Academy
- Madison High School
- Milby High School
- Sharpstown High School
- Waltrip High School
- Westbury High School
- Westside High School

FASTEST-GROWING CAREER OPPORTUNITIES
- Dental Assistant
- Biomedical Technician
- Registered Nurse

CERTIFICATIONS AND LICENSURES
- Certified Clinical Medical Assistant (CCMA)
- Phlebotomy Technician Certification (CPT)
- Certified Patient Care Technician/Assistant (CPCT/A)
- Pharmacy Technician Trainee
- Nursing Assisting Assessment (CNA)
- National Entry Level Dental Assistant (NELDA)

HIGH-PAYING CAREERS
- Surgeon
  - $190,000
- Anesthesiologist
  - $187,000
- Pharmacist
  - $120,000

Salaries vary due to a number of factors. The yearly salary figures printed here are averages from several sources approved by the U.S. Department of Labor.
Houston hosted 13 million visitors last year! From restaurants to hotel chains, the hospitality and tourism industry offers engaging, people-oriented careers. The Hospitality and Tourism program of study encompasses the management, marketing, and operations of restaurants and other food services, lodging, attractions, recreation events, and travel-related services. Culinary Arts and Hotel and Restaurant Management are programs available on select HISD campuses.

**HIGH SCHOOLS OFFERING HOSPITALITY & TOURISM PATHWAYS**

- Harper Alternative School
- Jordan High School
- Lamar High School
- Milby High School
- Northside High School
- Westside High School
- Wheatley High School
- Worthing High School

**FASTEST-GROWING CAREER OPPORTUNITIES**

- Hotel Manager
- Chef and Head Cook
- Food and Beverage Service Worker

**CERTIFICATIONS AND LICENSURES**

- ServSafe Food Handlers
- ProStart National Certificate of Achievement—Culinary Arts
- ProStart National Certificate of Achievement—Hotel and Restaurant Management

**HIGH-PAYING CAREERS**

- Hotel Executive
  - $112,000
- Executive Chef
  - $40,000
- Event Planner
  - $40,000

Salaries vary due to a number of factors. The yearly salary figures printed here are averages from several sources approved by the U.S. Department of Labor.
If you enjoy lending a helping hand and caring for others, the human services sector is for you! The Human Services program of study focuses on preparing individuals for employment in careers that improve the quality of human lives. In the cosmetology pathway, students will become experts in haircutting and styling, hair color treatments, perm wraps, facials and massage, and nail applications.

**HIGH SCHOOLS OFFERING HUMAN SERVICES PATHWAYS**

- Jordan High School
- Houston MTSC
- Milby High School

**FASTEST-GROWING CAREER OPPORTUNITIES**

- Massage Therapist
- Spa Manager

**CERTIFICATIONS AND LICENSURES**

- Texas Cosmetology Operator License

**HIGH-PAYING CAREERS**

- **Esthetician**
  - $26,000

- **Cosmetologist**
  - $25,000

Salaries vary due to a number of factors. The yearly salary figures printed here are averages from several sources approved by the U.S. Department of Labor.
Computers are essential to the way we live and do business. The Information Technology pathway will prepare you to work in the high-tech and high-paying IT jobs of tomorrow. The IT program of study will prepare you to explore issues in computing, solve high-tech problems, learn programming languages, design and test software systems, and more. HISD programs include Computer Networking, Computer Programming, Digital Media and Web Technologies, and Geographic Information Systems.

HIGH SCHOOLS OFFERING INFORMATION TECHNOLOGY PATHWAYS

- Austin High School
- Bellaire High School
- Booker T. Washington HS
- Eastwood Academy
- Heights High School
- High School for Law and Justice
- High School for the Preforming and Visual Arts
- Houston MTSC
- Lamar High School
- Madison High School
- Mickey Leland High School
- Milby High School
- North Forest High School
- Northside High School
- Scarborough Futures Academy
- Sharpstown International
- South Early College
- Waltrip High School
- Westbury High School
- Westside High School
- Wisdom High School
- Wheatley High School
- Worthing High School

FASTEST-GROWING CAREER OPPORTUNITIES

- Computer Programmers
- Computer Engineers
- Database Administrators

CERTIFICATIONS AND LICENSURES

- BICSI - Cabling Installation
- CompTIA–Strata, A+, Network+, Security+
- Adobe Certified Associate–Web Authoring, Interactive Media
- CIW–Web Design Specialist, Web Security Associate, Internet Business Associate,
- STARS Certification
- SPACE Certification
- ESRI Technical Certification–Desktop
- MOS Word, Excel, PowerPoint, Access

HIGH-PAYING CAREERS

- Chief Information Officer
  - $130,000
- Software Developer
  - $100,000
- Network Administrator
  - $80,000
Order in the court! If you can stay calm in difficult situations, have an interest in protecting people, and can think on your feet, you may have a future in the Law, Public Safety, Corrections, and Security industry. This program of study focuses on careers in planning, managing, and providing legal, public safety, protective services, and homeland security. HISD programs include Court Systems, Firefighter/EMT, Law Enforcement and Corrections, and National Security.

HIGH SCHOOLS OFFERING LAW, PUBLIC SAFETY, CORRECTIONS & SECURITY PATHWAYS

- Chavez High School
- High School for Law and Justice
- North Forest High School
- Sterling High School
- Waltrip High School
- Westbury High School
- Wisdom High School

FASTEST-GROWING CAREER OPPORTUNITIES

- Emergency Medical Technician
- Police Officer
- Paralegal

CERTIFICATIONS AND LICENSURES

- Criminal Justice/CSI
- Basic Telecommunicator
- Teen Forensics
- Municipal Jailer
- Texas Commission on Fire Protection (TCFP) Certification
- State Emergency Medical Technician (EMT) Certification

HIGH-PAYING CAREERS

- Lawyer
  - $120,000
- Forensic Science Technician
  - $45,000
- Fire Fighter
  - $46,000

Salaries vary due to a number of factors. The yearly salary figures printed here are averages from several sources approved by the U.S. Department of Labor.

HISD Career and Technical Education | www.HISDCareerReadiness.org
Manufacturing industries create new products from raw materials or other components. These jobs may be in a factory, plant or mill—anywhere new products are created. Twelve million Americans have careers in manufacturing! The Manufacturing program of study focuses on planning and managing the processing of materials into intermediate or final products. Machining, Welding, Engineering, and Precision Metal Manufacturing are all programs available on select HISD campuses.

**HIGH SCHOOLS OFFERING MANUFACTURING PATHWAYS**
- Houston MTSC
- Jordan High School
- Madison High School
- Milby High School
- Sterling High School
- Wisdom High School

**FASTEST-GROWING CAREER OPPORTUNITIES**
- Welder
- Machinist
- Technician

**CERTIFICATIONS AND Licensures**
- Autodesk Certified User
- Certified SOLIDWORKS Associate (CSWA)
- NCCER–Welding
- AWS Certification

**HIGH-PAYING CAREERS**
- Manufacturing Engineer
  - $100,000
- Underwater Welder
  - $90,000
- Machinery Mechanic
  - $50,000

Salaries vary due to a number of factors. The yearly salary figures printed here are averages from several sources approved by the U.S. Department of Labor.

HISD Career and Technical Education | www.HISDCareerReadiness.org
Do you have a way with words, images, people, and strategy? Are you plugged into pop culture? If so, you could enjoy a successful and stimulating career in marketing. Businesses of all types and sizes, including not-for-profit organizations, use marketing in their local, regional, national, and global operations to direct the flow of products to attract potential customers. The Marketing program of study focuses on how the marketing process determines and satisfies the needs and wants of people. Retail Management and Marketing are programs available at select HISD campuses.

**HIGH SCHOOLS OFFERING MARKETING, SALES & SERVICES PATHWAYS**

- Bellaire High School
- Jordan High School
- Heights High School
- Scarborough High School
- Westbury High School
- Wisdom High School

**FASTEST-GROWING CAREER OPPORTUNITIES**

- Sales Agents and Managers
- Merchandiser
- Retail salespeople

**CERTIFICATIONS AND LICENSURES**

- A*S*K–Marketing Fundamentals
- A*S*K–Entrepreneurship
- National Retail Federation (NRF) Customer Service and Sales

**HIGH-PAYING CAREERS**

<table>
<thead>
<tr>
<th>Position</th>
<th>Salary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marketing Director</td>
<td>$130,000</td>
</tr>
<tr>
<td>Advertising Director</td>
<td>$90,000</td>
</tr>
<tr>
<td>Sales Manager</td>
<td>$110,000</td>
</tr>
</tbody>
</table>

Salaries vary due to a number of factors. The yearly salary figures printed here are averages from several sources approved by the U.S. Department of Labor.
Do you like to solve interesting and challenging problems? Do you like to be creative and work on projects that make a difference? Do you want to improve the future? If so, a STEM career may be right for you. The Science, Technology, Engineering & Mathematics program of study focuses on providing scientific research and professional services. Careers in STEM link scientific discoveries to the needs of society and consumers. HISD programs include Engineering, Robotics, Electronics, Petroleum Engineering, Renewable Energy, Natural Resource Science, and Marine Engineering Technology.

HIGH SCHOOLS OFFERING SCIENCE, TECHNOLOGY, ENGINEERING & MATH PATHWAYS

- Austin High School
- Chavez High School
- Booker T. Washington High School
- Eastwood Academy
- Energy Institute High School
- Furr High School
- Heights High School
- Houston MTSC
- Kashmere High School
- Lamar High School
- Madison High School
- Milby High School
- South Early College High School
- Waltrip High School
- Westbury High School
- Westside High School
- Young Women’s College Prep Academy

FASTEST-GROWING CAREER OPPORTUNITIES

- Geological Technician
- Geoscientist
- Engineer

CERTIFICATIONS AND LICENSURES

- Certified Clinical Medical Assistant (CCMA)
- Autodesk Certified User
- Certified SOLIDWORKS Associate (CSWA)

HIGH-PAYING CAREERS

- Aerospace Engineer
  $110,000
- Petroleum Engineer
  $140,000
- Nuclear Engineer
  $90,000

Salaries vary due to a number of factors. The yearly salary figures printed here are averages from several sources approved by the U.S. Department of Labor.
TRANSPORTATION, DISTRIBUTION & LOGISTICS
BUSINESS AND INDUSTRY ENDORSEMENT

Would you like to fly planes, drive trucks, or pilot ships? Are you organized and efficient? Do you have quick reflexes? Are you good at solving problems? If so, you may enjoy a career in transportation, distribution, and logistics. The Transportation, Distribution, and Logistics program of study focuses on careers in the movement of people, materials, and goods by road, pipeline, air, rail, and water. HISD programs include Automotive and Diesel Technology, Logistics and Global Supply, Maritime Studies, Aviation Technology, Heavy Equipment Repair, Piloting and Deck Operations, and Maritime Systems Engineering.

HIGH SCHOOLS OFFERING TRANSPORTATION, DISTRIBUTION & LOGISTICS PATHWAYS

- Austin High School
- Heights High School
- Houston MTSC
- Jordan High School
- Madison High School
- North Forest High School
- Sterling High School
- Waltrip High School
- Westbury High School
- Wheatley High School
- Yates High School

FASTEST-GROWING CAREER OPPORTUNITIES

- Merchant Mariner
- Auto/Diesel Technician
- Airline Pilot

CERTIFICATIONS AND LICENSURES

- ASE–Brakes, Electronic/Electrical Systems, Heating and A/C, Engine Repair
- CLA
- CLT
- GLA

HIGHEST-PAYING CAREERS

- Mechanical Engineer
  - $90,000
- Logistics Coordinator
  - $85,000
- Transportation Analyst
  - $70,000

Salaries vary due to a number of factors. The yearly salary figures printed here are averages from several sources approved by the U.S. Department of Labor.
Are you going to high school? Are you going to college? Why not complete them at the same time!? The Futures Academy Program gives students the opportunity to earn an associate degree and valuable industry certifications in high-demand career fields while in high school – FOR FREE! The Futures Academy collaborates with Houston Community College to provide students courses of study that offer valuable technological and academic skills.

**HIGH SCHOOLS OFFERING FUTURES ACADEMIES**

- Furr High School  
- Jones Futures Academy  
- Kashmere High School  
- Long Futures Academy  
- Scarborough High School  
- Sterling High School  
- Washington High School  
- Westside High School

**PROGRAM BENEFITS**

- Earn an associate degree by August after senior year – FREE  
- Earn valuable industry certifications  
- Earn 60+ college credit hours  
- Preparation for high-demand career fields  
- Preparation to continue on to a four-year college or university  
- Access to industry mentors, field experiences, and internships

**ACADEMY PROGRAM OPTIONS**

- Allied Health  
- Construction Technology  
- Health Sciences  
- Logistics & Global Supply  
- Network & Computer Administration  
- Engineering  
- Pharmacy Technology  
- Associate in Science in Engineering Science (ASES)  
- Digital Communications
Linked Learning is an approach to education that transforms the traditional high school experience by bringing together strong academics, a demanding technical education, and real-world experience to help students gain an advantage in high school, postsecondary education, and careers. Students can choose among industry-themed pathways in fields such as engineering, arts and media, biomedicine and health.

**CORE COMPONENTS OF LINKED LEARNING**

- **An Academic Core:** College preparatory English, math, science and history.
- **Real–World Technical Skills:** Courses to help students gain career-based knowledge and skills.
- **Work–Based Learning:** Mentoring and job shadowing opportunities that evolve into internships/virtual apprenticeships.
- **Personalized Support:** Counseling and supplemental instruction in reading, writing, and mathematics.

**RESEARCH SHOWS LINKED LEARNING STUDENTS**

- Have higher persistence and graduation rates than their peers
- Learn more quickly and retain information better through real-world concepts
- Earn more high school credits than their peers
- Often earn higher wages after high school
- Are more likely to enroll in post-secondary education than their peers

**HISD CAMPUSES USING THE LINKED LEARNING APPROACH**

- Chavez High School
- Austin High School
- Bellaire High School
- Eastwood Academy
- Furr High School
- Heights High School
- Jones Futures Academy
- Kashmere High School
- Lamar High School
- High School for Law and Justice
- Long Futures Academy
- Long Wisdom High School
- Madison High School
- Milby High School
- Northside High School
- North Forest High School
- Scarborough High School
- Sharpstown High School
- Sterling High School
- Waltrip High School
- Washington High School
- Westbury High School
- Westside High School
- Wheatley High School
- Worthing High School
- Yates High School
Agricultural Programs
1. Agriculture, Food, and Natural Resources

Architecture, Construction, Manufacturing, and Transportation Programs
2. Architecture and Construction
3. Manufacturing
4. Transportation, Distribution, and Logistics

Science, Technology, Engineering, & Mathematics Programs
5. STEM

Communication and Information Technologies Programs
6. Arts, Audio/Video Technology, and Communications
7. Information Technology

Business Operations, Management, and Hospitality Programs
8. Business Management and Administration
9. Marketing
10. Finance
11. Hospitality and Tourism

Human and Social Services Programs
12. Education and Training
13. Government and Public Administration
14. Human Services
15. Law, Public Safety, Corrections, and Security

Health Science Programs
16. Health Science

Comprehensive high schools in black
Non-comprehensive high schools in blue
### High-Skill, High-Growth Jobs in the Gulf Coast Region 2010-2020

<table>
<thead>
<tr>
<th>OCCUPATION</th>
<th>GROWTH</th>
<th>ANNUAL AVERAGE JOB OPENINGS</th>
<th>EDUCATION</th>
<th>MEDIAN HOURLY WAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teacher</td>
<td>46.7%</td>
<td>7,365</td>
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<td>Registered Nurse</td>
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<td>Occupational Therapist</td>
<td>37.60%</td>
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<td>Master's</td>
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<td>Petroleum Technician</td>
<td>34.20%</td>
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<td>32.8%</td>
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<td>Pharmacist</td>
<td>27.90%</td>
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<td>Welder</td>
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<td>Dentist</td>
<td>26.50%</td>
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<td>Electrician</td>
<td>19.70%</td>
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</table>

Salaries vary due to a number of factors. The yearly salary figures printed here are averages from several sources approved by the U.S. Department of Labor.
AT HISD, OUR GOAL IS FOR EVERY STUDENT TO GRADUATE READY FOR THE WORLD

**LEADER**
Works collaboratively and leads by example. Embraces new ideas and technologies, and motivates others to be open to change.

**ADAPTABLE & PRODUCTIVE**
Industrious member of a global society. Demonstrates flexibility and cross-cultural skills when fulfilling personal, professional, and community experiences.

**COLLEGE-READY LEARNER**
Proficient in the core disciplines as evidenced by successful performance on state and national assessments. Works hard and persists to achieve academic and career goals.

**SKILLED COMMUNICATOR**
Reads, writes, speaks, and listens effectively — adapts to diverse audiences and settings.

**RESPONSIBLE DECISION MAKER**
Sets goals, develops action plans, and works hard. When faced with challenges and obstacles, is able to persist to achieve goals.

**CRITICAL THINKER**
Identifies and dissects issues, seeks multiple opinions, and critically evaluates various solutions. Understands when additional information is needed and effectively uses technology to research.

WWW.HOUtONISD.ORG/GLOBALGRAD
## PLAN YOUR PATH
Paths and Endorsements Offered at HISD High Schools

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<thead>
<tr>
<th>S.T.E.M. (Science, Technology, Engineering, and Mathematics)</th>
<th>BUSINESS AND INDUSTRY</th>
<th>ARTS AND HUMANITIES</th>
<th>PUBLIC SERVICES</th>
<th>MULTI-DISCIPLINARY</th>
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</table>
GRADE 4:
- Strive for academic performance in Math and Reading STAAR tests
- Research possible HISD middle schools you might want to attend

GRADE 5:
- Strive for academic performance in Math and Reading STAAR tests
- Meet with your middle school counselor to discuss what you have learned in your research

GRADE 6:
- Strive for academic performance in Math and Reading STAAR tests
- Register for Naviance
  - Take a personality test
  - Search for college and career programs based on your results

GRADE 7:
- Strive for academic performance in Math and Reading STAAR tests
- Research possible HISD high schools you might want to attend

GRADE 8:
- Pick up college and career brochures
- Take Readistep
- Pass Mathematics, Reading, Science, and Social Studies STAAR tests
- Take TECH literacy assessment

SENIOR YEAR:
- Apply to at least three colleges
- Complete Industry Certifications/Licenses
- Apply for FAFSA/TASFA (federal and state financial aid) and scholarships

- Take Key Interest Inventory
- Investigate career websites such as Virtual Job Shadow
- Go to When I Grow Up Expo
- Graduate with an Endorsement, the Distinguished Level of Achievement, and Performance Acknowledgements
2016 BOARD OF EDUCATION

Anna Eastman, District I
Rhonda Skillern-Jones, District II
Manuel Rodriguez Jr., District III
Jolanda Jones, District IV
Michael Lunceford, District V
Greg Meyers, District VI
Harvin C. Moore, District VII
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Wanda Adams, District IX

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