

High School Graduation to

Post-Secondary Education to

WHAT????????



High School Graduation to

Post-Secondary
education to...
unemployment,
a job or
a fulfilling career?



All too often, students obtain a post-secondary education that is unrelated to employability or a viable income.



Texas Higher Education Misalignment at the Bachelor's Degree Level

Highest Paying 1 YR Post exit 2016 Bachelor's degree programs (CIP)	Most Graduates 2016 Bachelor degree programs (CIP)
1. Registered Nursing	1. Registered Nursing
2. Chemical Engineering	2. Multi-/Interdisciplinary Studies
3. Petroleum Engineering	3. Business Admin. & Management
4. Construction Eng. Technologies	4. Psychology, General
5. Electrical Engineering Techs	5. Biology, General
6. Computer/IT Administration	6. Health Ed. & Physical Fitness
7. Computer Science	7. Criminal Justice and Corrections
8. Computer Engineering	8. Accounting and Related Services
9. Electrical & Comm. Engineering	9. Financial Management
10. Civil Engineering	10. Liberal Arts & General Studies
11. Industrial Prod. Technologies	11. Marketing
12. Computer & Info. Sciences	12. Communication/Media Studies
13. Industrial Engineering	13. Mechanical Engineering

Highest Earning Bachelor's Programs 2016 (4D CIP)

Bachelor's Graduates by Major (TX) (100+)	Grads	Earnings
1. Registered Nursing, Nursing Administration	10,453	\$67,318
2. Chemical Engineering	549	\$65,580
3. Petroleum Engineering	559	\$63,724
4. Construction Engineering Technologies	401	\$61,641
5. Electrical Engineering Technologies/Techs	142	\$57,070
6. Computer/IT Administration & Mgmt.	250	\$56,924
7. Computer Science	536	\$56,893
8. Computer Engineering	375	\$56,143
9. Electrical/Electronics & Comm. Engineering	1,214	\$55,869
10. Civil Engineering	819	\$54,266
11. Industrial Production Technologies	315	\$53,541
12. Computer & Information Sciences	1,880	\$53,406
13. Industrial Engineering	373	\$51,183
14. Computer Systems Analysis	192	\$50,950

Most Graduates: Bachelor's Programs 2016 (4D CIP)

Bachelor's Graduates by Major (TX)	Grads	Earnings
1. Registered Nursing, Nursing Administration	10,453	\$67,318
2. Multi-/Interdisciplinary Studies, Other	9,495	\$41,885
3. Business Administration, Mgmt./Operations	7,030	\$46,030
4. Psychology, General	6,140	\$25,623
5. Biology, General	5,438	\$23,420
6. Health and Physical Education/Fitness	5,001	\$25,103
7. Criminal Justice and Corrections	4,457	\$31,465
8. Accounting and Related Services	4,035	\$38,084
9. Finance & Financial Management Services	3,178	\$45,002
10. Liberal Arts, Humanities & General Studies	3,074	\$35,160
11. Marketing	2,834	\$37,566
12. Communication and Media Studies	2,513	\$29,685
13. Mechanical Engineering	2,065	\$49,639
14. English Language and Literature, General	2,061	\$29,166

Highest Earning Associate's Programs 2016 (4D CIP)

Associate's Graduates by Major (TX) (50+)	Grads	Earnings
1. Fire Protection	243	\$67,261
2. Registered Nursing, Administration, Research	5,434	\$56,861
3. Electrical and Power Transmission Installers	128	\$56,639
4. Construction Engineering Technologies	80	\$56,110
5. Electromechanical & Instrumentation Techs	657	\$51,849
6. Quality Control & Safety Technologies	235	\$51,788
7. Physical Science Technologies/Technicians	1,029	\$48,209
8. Allied Health Diagnostic & Treatment Professions	2,282	\$43,190
9. Electrical Engineering Technologies	204	\$43,119
10. Industrial Production Technologies	264	\$41,724
11. Dental Support Services and Allied Professions	466	\$38,544
12. Drafting/Design Engineering Technologies	509	\$37,243
13. Heating, AC & Refrigeration Technologies	163	\$36,561
14. Health Services & Allied Health Sciences, Gen.	253	\$36,314

High School Graduation to
post-secondary education
and a fulfilling career.

How do students get there?



Questions to Consider When Exploring Careers PRIOR to Post-Secondary Decisions...



1. What careers relate to things I like to do?

- [O*Net Online.org](http://O*NetOnline.org)
- Naviance Career Interest Profiler
- Naviance Career Cluster Finder

2. What are the potential salaries of my careers of interest??

- CareerOneStop.com
- O*NetOnline.com (Wages & Employment section)
- [Texas Reality Check](#) Research careers by salary needed for desired lifestyles in Texas.

3. What is the job outlook??

- O*NetOnline.org (Wages & Employment section)

4. How can I explore careers of interest prior to HS graduation??

TALKING POINTS

After Graduation... Then What??

Career Investigation and Awareness

Information and Resources

Important information to research when exploring careers:

1. What careers relate to your interests and what you love to do?
Career Interest Surveys
2. Salary potential. *Onetonline.org*
3. Job outlook or job growth for favored careers. *Onetonline.org*
4. Reaching my career goal: Where do I go? What colleges and universities provide education needed to reach career goals? What will it cost?
College research via college websites

++

Online Resources:

Career and Post-Secondary Research

-www.naviance.com

Career interest surveys, career information, colleges, college costs, scholarships and money, videos regarding careers and general interests and more.

-www.onetonline.org

Comprehensive career information, including interest surveys, salary potential and job outlook by state and region. Search for careers using the career Cluster feature.

<http://assessment.texasgenuine.org/> Take the survey and find out your top 3 Career Clusters. You will discover a huge amount of careers within each cluster.

-www.mynextmove.org

Also part of www.onetonline.org. Comprehensive career information, including interest surveys.

-www.careeronestop.org

Comprehensive career information, including interest surveys, post-secondary education and training required and colleges that provide those programs.

-www.texasrealitycheck.com

A different approach to the interest surveys! In this survey, you will "buy stuff" for a sample month (car, housing, technology, entertainment, food, insurance, utilities, etc.). The cost for a year is determined. A list of careers with salaries that match is generated.

-www.indeed.com

Find the latest job postings in your careers of interest. Input the job title, and a city and state or zip code, and see the job listings and their descriptions, requirements, and sometimes salaries.

-www.springbranchisd.com

For Students section: Career Tech, College Board, Educational Technology, Online Courses (VHS), College Prep, Class Rank, Early College Program, ~~Shmoop~~, Scholarship Opportunities

Experiences:

- What are your ideas about careers in the future?
- Learn about SBISD career investigation opportunities through electives, focus, ~~career prep~~ internship electives. Plan ahead to free up space for

more career focus electives and internships. (Summer school, SBISD Virtual Academy, Texas Tech ISD online HS courses)

- Go to the Guthrie Center Community Tuesday Open House April 3, 2017, 5pm-7:30pm
- Participate in summer career camps (Universities, sports camps, etc., that offer exposure to your career fields of interest. Google summer career camps for many others.)
- Participate in summer jobs in career areas of interest
- Volunteer in career area businesses or industries that reflect your career interests.

Benefits of investigating careers while in high school (even earlier):

1. Find your career or career cluster focus
2. National professional certification opportunities are available through high school electives
3. Early knowledge of education requirements to reach your career goal.
4. College selection process driven by your career focus. Do the colleges you like have degree or training programs that will prepare you for your favorite careers?
5. Incorporate career focus experiences in college application and recommendation process
6. Establish business and industry connections through networking
7. Learning how to learn...Learning where to turn...Learning where to earn.

What do career providers want?

Research online the career sections of top companies and industries related to your careers of interest. See careers within the companies. Check their job descriptions and what they require of prospective employees.

Example: 3D Computer Animator

Industrial Light and Magic <https://jobs.lucasfilm.com/>

Pixar <http://www.pixar.com/careers>

(Some may also post names of colleges from which they have hired graduates for their positions.)

Find out what they want, then see what colleges provide that!

Other Resources:

Financial Aid for College

FAFSA-Free Application for Federal Student Aid for College!

Set up personal ID and password, and obtain information regarding types of financial aid available through the US government, and steps to take to obtain it!

<https://fafsa.ed.gov/>

www.onetonline.org

A great resource for Questions 1-4!!



O*NET OnLine

Occupation Quick Search:

[Help](#)[Find Occupations](#)[Advanced Search](#)[Crosswalks](#)[Share](#)[O*NET Sites](#)

Build your future with O*NET OnLine.

Welcome to your tool for career exploration and job analysis!

O*NET OnLine has detailed descriptions of the world of work for use by job seekers, workforce development and HR professionals, students, researchers, and more!

[What is O*NET?](#)

What's New?

New BLS wage information in O*NET websites

[Learn More](#)

Get O*NET news by [email](#) or [RSS](#).

I want to be a...

Start the career you've dreamed about, or find one you never imagined.

[Find It Now](#)

at My Next Move

ATTN: VETERANS

Put your military skills and experience to work in civilian life. Learn how at:

MY NEXT MOVE FOR VETERANS

[Get Started](#)

Hot Technologies are frequently included in employer job postings.

[Learn More](#)

Occupation Search

[Keyword](#) or [O*NET-SOC Code](#):



Find Occupations

[Browse](#) groups of similar occupations to explore careers. Choose from industry, field of work, science area, and more.

Bright Outlook



Advanced Search

[Focus](#) on occupations that use a specific tool or software. Explore occupations that need your skills.

Browse by O*NET Data:



Crosswalks

[Connect](#) to a wealth of O*NET data. Enter a code or title from another classification to find the related O*NET-SOC occupation.

Apprenticeship

HB5

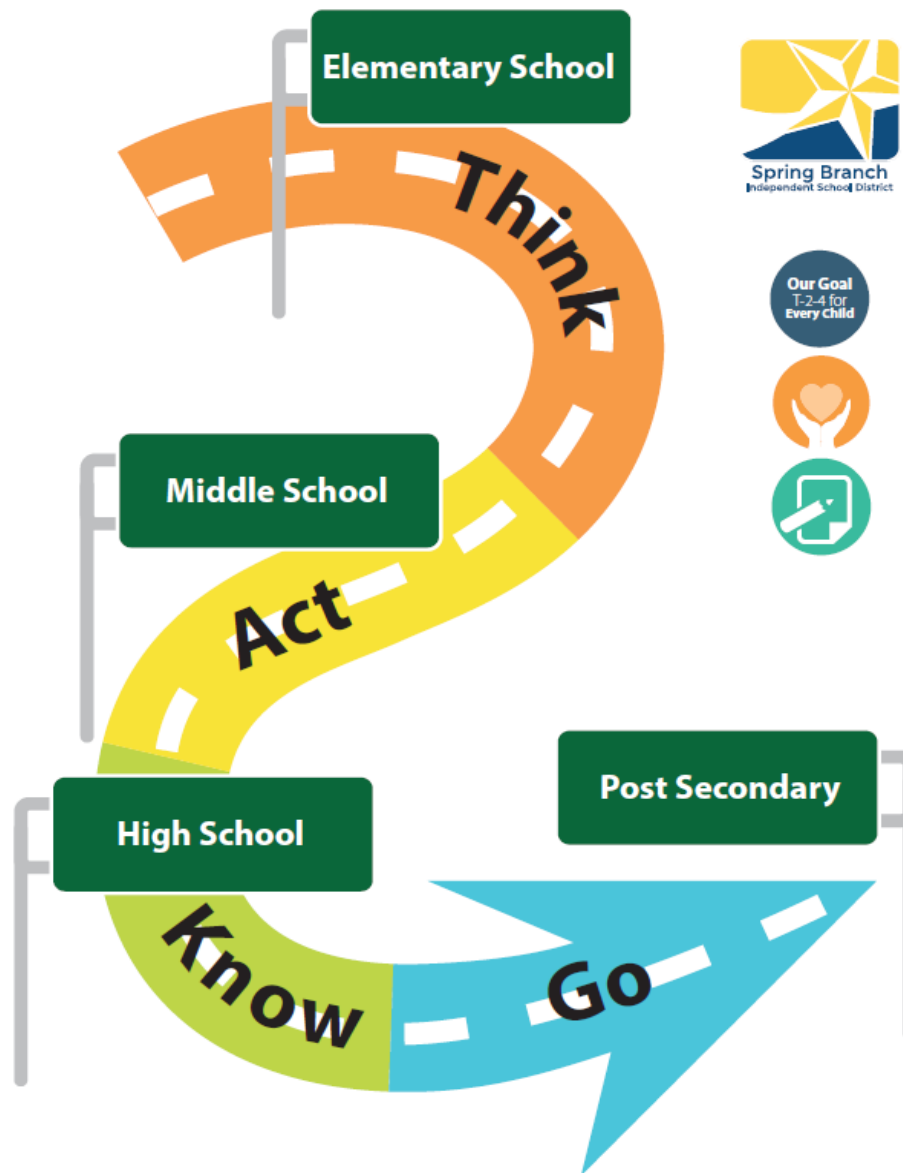


Elementary/Middle: Career Awareness

Middle : Exploration-Focus

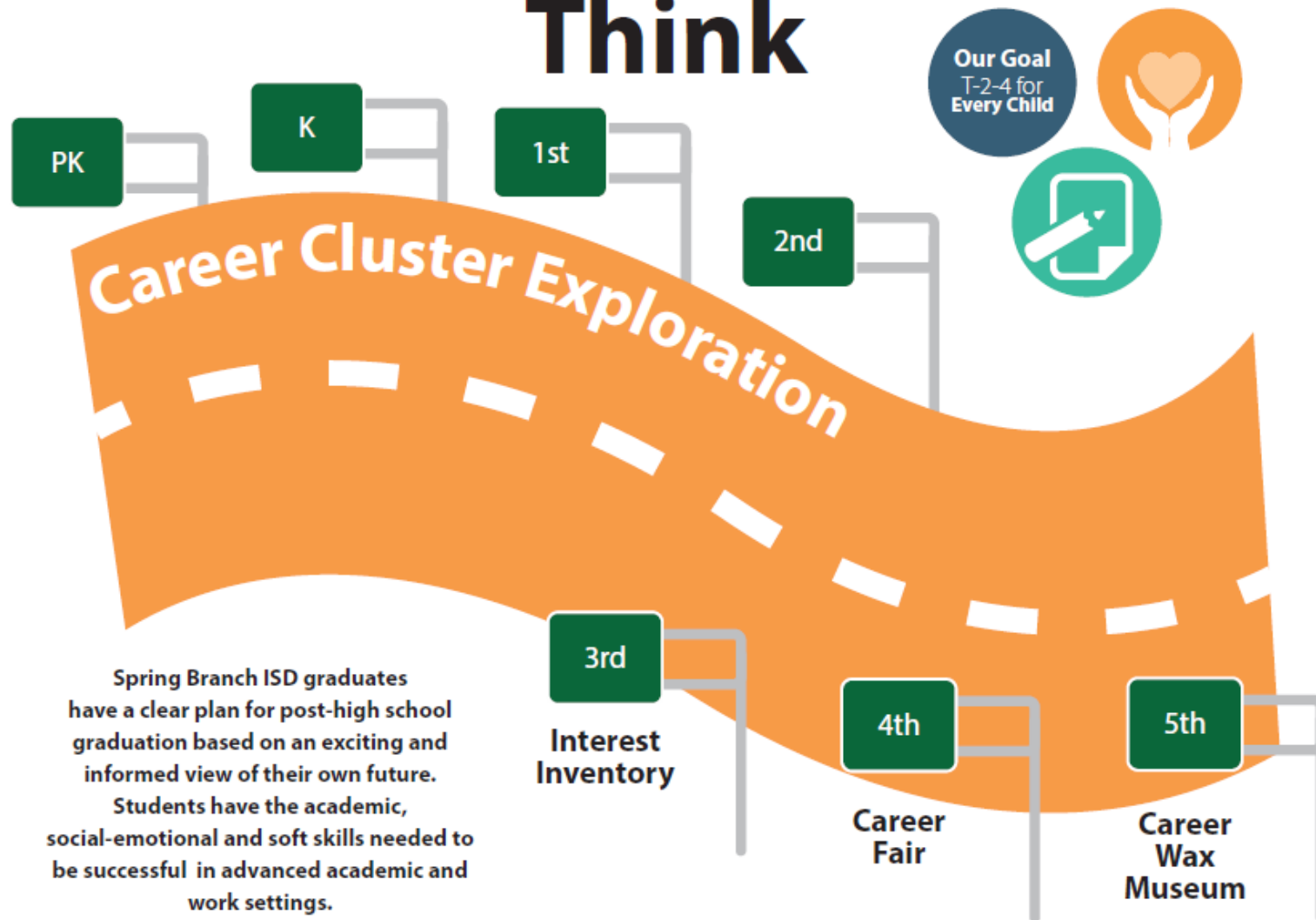
High School: Exploration-Focus-Direction

The Spring Branch ISD Career Education Initiative!!!



Spring Branch ISD graduates have a clear plan for post-high school graduation based on an exciting and informed view of their own future. Students have the academic, social-emotional and soft skills needed to be successful in advanced academic and work settings.

Elementary School Think





Middle School Act

Our Goal
T-2-4 for
Every Child



6th

**Career Key
Interest Inventory**

Spring Branch ISD graduates have a clear plan for post-high school graduation based on an exciting and informed view of their own future. Students have the academic, social-emotional and soft skills needed to be successful in advanced academic and work settings.

7th

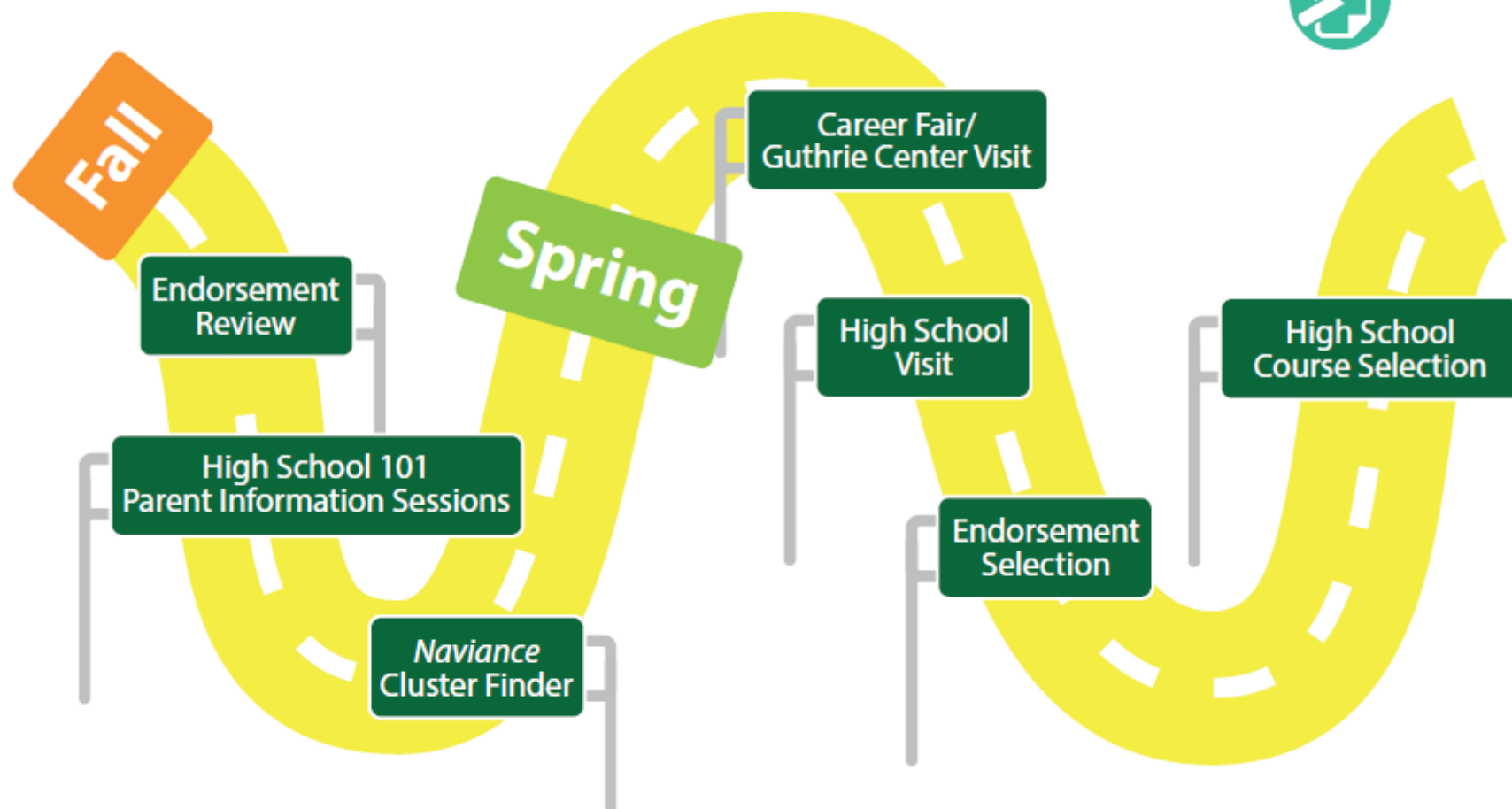
**Navigate Curriculum
Endorsement Modules**

8th

**Cluster Finder
Career Week Endorsement Selection**



8th Grade Act

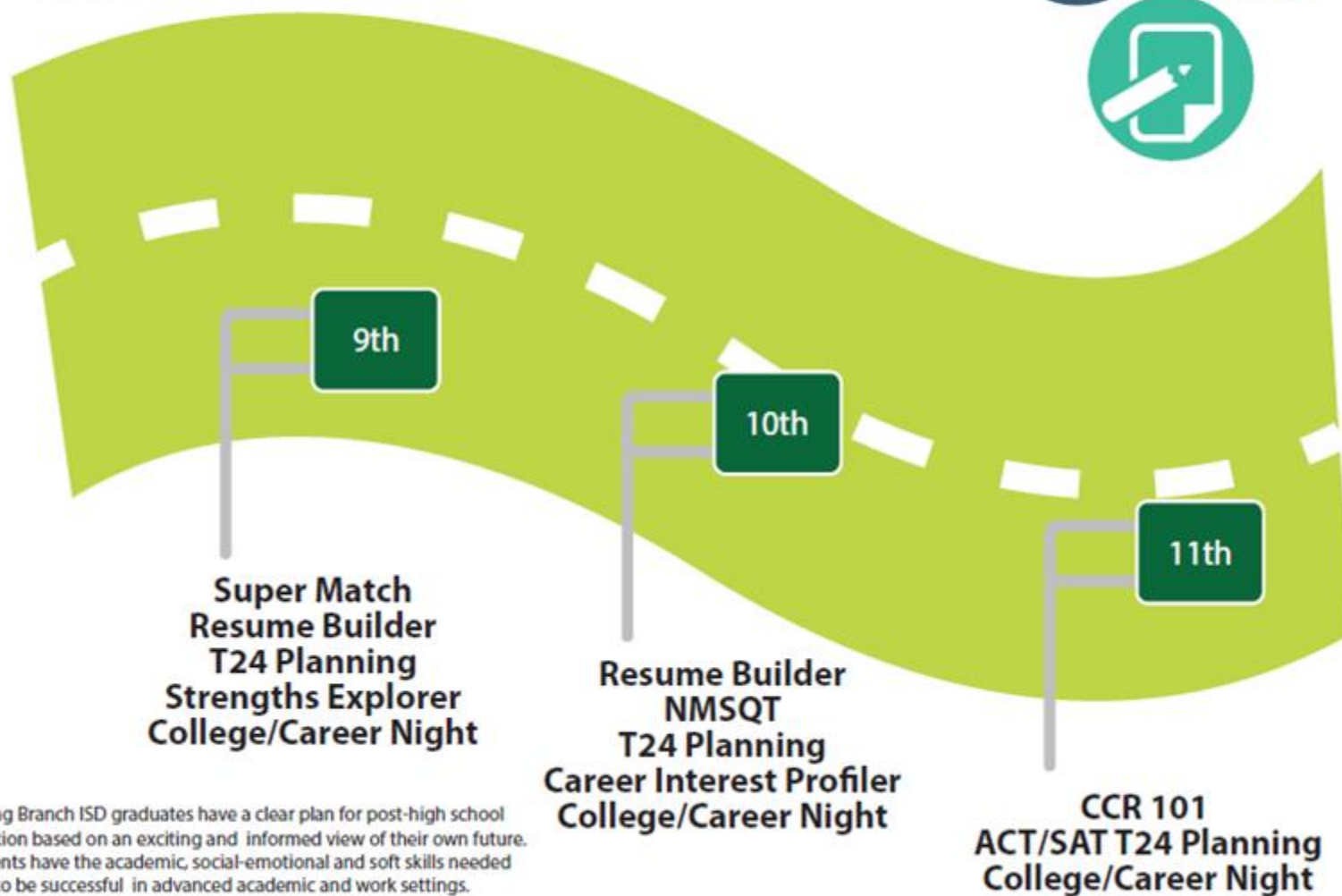


Spring Branch ISD graduates have a clear plan for post-high school graduation based on an exciting and informed view of their own future. Students have the academic, social-emotional and soft skills needed to be successful in advanced academic and work settings.



High School **Know**

Our Goal
T-2-4 for
Every Child



Spring Branch ISD graduates have a clear plan for post-high school graduation based on an exciting and informed view of their own future. Students have the academic, social-emotional and soft skills needed to be successful in advanced academic and work settings.

CCR 101
ACT/SAT T24 Planning
College/Career Night



12th - Post-Secondary Go

Our Goal
T-2-4 for
Every Child



12th

Post-Secondary

T24 Launch

Alumni Supports

Spring Branch ISD graduates have a clear plan for post-high school graduation based on an exciting and informed view of their own future. Students have the academic, social-emotional and soft skills needed to be successful in advanced academic and work settings.



HB5

Endorsements

Most high school
graduation endorsements
incorporate career focus opportunities.

Endorsement Categories



STEM: Science, Technology, Math, Engineering

Business & Industry

Public Services

Arts & Humanities

Multidisciplinary

Graduation Program – Overview

Foundation High School Program

A new, more flexible graduation program that allows students to pursue their interests is in place for all students who entered high school beginning in the 2014-2015 school year.

The program contains:

- A 22-credit Foundation Plan which is the core of the new Texas high school diploma
- Five endorsement options that allow students to focus on a related series of courses

Foundation Plan (22 credits)

English (4 credits)	English I	English II	English III	An advanced English course
Mathematics (3 credits)	Algebra I	Geometry	An advanced math course	
Science (3 credits)	Biology	Integrated Physics & Chemistry or an advanced science	An advanced science course	
Social Studies (3 credits)	W. History or W. Geography	U.S. History	U.S. Government (.5 credit)	Economics (.5 credit)
Languages other than English (2 credits)	2 credits in the same language	or 2 credits in Computer Science		
Physical Education (1 credit)	Fine Arts (1 credit)	Electives (5 credits)		

Foundation Plan with Endorsements (26 credits)

Spring Branch ISD encourages every student to graduate with at least one endorsement.*

Select an endorsement below to view specific graduation requirements *available at SHS*:



[STEM](#)



[Business/Industry](#)



[Public Services](#)



[Arts/Humanities](#)



[Multidisciplinary](#)

Enhancements

Additionally, a student may earn the Distinguished Level of Achievement and/or a Performance Acknowledgment for outstanding performance. The Distinguished Level of Achievement must be earned to be admitted to a Texas public university under the Top 10 percent automatic admission law.

Distinguished Level of Achievement	Performance Acknowledgments
• Foundation Program requirements	• dual credit course
• 4 credits in mathematics including Algebra II	• bilingualism and biliteracy
• 4 credits in science	• PSAT, ACT's PLAN, SAT, or ACT
• at least 1 endorsement	• Advanced Placement or International Baccalaureate exam
	• earning a nationally or internationally recognized business or industry certification or license

* A student entering 9th grade must indicate an endorsement he or she plans to follow. A student may change or add an endorsement at any time.

* A student may graduate without earning an endorsement if, after his or her sophomore year, the student's parent signs a form permitting the student to omit the endorsement requirement.

Graduation Program
Overview section
from the SBISD
Course Catalog
section of each
high school's
website.

Click on the Five
Endorsement names for
the graduation pathways.

The 16 Career Clusters



Career and Technical Education Courses in the SBISD Course Catalog are organized by Endorsement and Career Cluster.

Career Clusters were created by the US Govt. to organize careers:

- with similarities
- connections
- and are related to the cluster title category.

In the Endorsements, the Career & Technical Education (CTE) Pathways are categorized by Career Clusters. Pictured below are the CTE clusters in the **Business & Industry Endorsement**.

Select one of the options below.

Language Arts Electives	<u>4 ELA elective credits</u> with 3 levels in the same area
Technology Applications	<u>4 credits</u>
Career & Technical Education	<u>Agriculture, Food & Natural Resources</u>
	<u>Architecture & Construction</u>
	<u>Arts, A/V Technology & Communications</u>
	<u>Business, Management & Administration</u>
	<u>Finance</u>
	<u>Hospitality & Tourism</u>
	<u>Information Technology</u>
	<u>Marketing</u>

Additional Credit Requirements

Animal Science Pathway for the Veterinary Technician Assistant Certification

BUSINESS & INDUSTRY ENDORSEMENT

Agriculture, Food and Natural Resources Cluster

Animal Science: Veterinary Technician Pathway - Guthrie

Animal Science will provide students with an understanding of the opportunities and skills needed for careers in the animal science field. Topics include animal industry, anatomy & physiology, and livestock husbandry management of small animals, handling a wide variety of animals, assisting clients, office management and legal issues in a veterinary clinic, common ailments and treatments as well as emergency care techniques.

Technical Certification: Certified Veterinary Assistant Level 1 (Must complete a 400-hour Internship before graduation)

	CR	Course ID
Small Animal Management (pre 2017-18) or	1.0	CTAG12
Small Animal Management	0.5	CTAG12
and Equine Science	0.5	CTAG13
Veterinary Medical Applications	1.0	CTAG14
Advanced Animal Science *	1.0	CTAG15
Practicum in AFNR	2.0	CAG82 A/B
OR Internship with Veterinarian	2.0	CPG81 A/B
Total Credits	5.0	

Practicum/Internship must be the final course in the sequence.

* Satisfies 3rd Year Science Graduation Requirement

Exploring careers through HS CTE or other career focus electives:

1. Students gain “real world” experiences about their career or careers of interest.
2. Opportunities to discover if they love them or decide they really aren't into them.
3. Opportunities to find their career passion in high school.
4. Many of the CTE electives provide internships and also lead to professional certifications.
5. Gaining experiences and knowledge in career focused electives will be impressive on college applications and resumes.

SBISD Career & Technical Education by Endorsement and Career Clusters in SBISD High Schools

Public Service

Education and Training

Health Science


Human Services

Law Public Safety, Corrections &
Security (includes NJROTC)

ALL Endorsements

Career Prep and Guthrie Internships

SBISD Career & Technical Education Programs by Endorsements and Career Clusters



in SBISD High Schools

STEM

Engineering

Business & Industry-

Arts, A/V Technology & Communications

Business, Management & Administration

Finance

Hospitality & Tourism

Information Technology

Manufacturing

Marketing

ALL Endorsements

Career Prep and Guthrie Internships



THE Guthrie CENTER



Explore Careers While in High School!!!

SBISD Career & Technical Education Programs by Endorsements and Career Clusters at the GUTHRIE Center

Business & Industry

Agriculture, Food and Natural Resources

Architecture & Construction

Arts, A/V Technology & Communications

Hospitality & Tourism

Information Technology

Public Services

Health Science

Law, Public Safety, Corrections & Security

ALL Endorsements

Guthrie Internships

THE Guthrie CENTER

STUDENTS FROM EVERY SPRING BRANCH HIGH SCHOOL
HAVE ACCESS TO THE GUTHRIE CENTER COURSES !

Memorial



Northbrook



Spring Woods



Stratford



Westchester



Academy of Choice

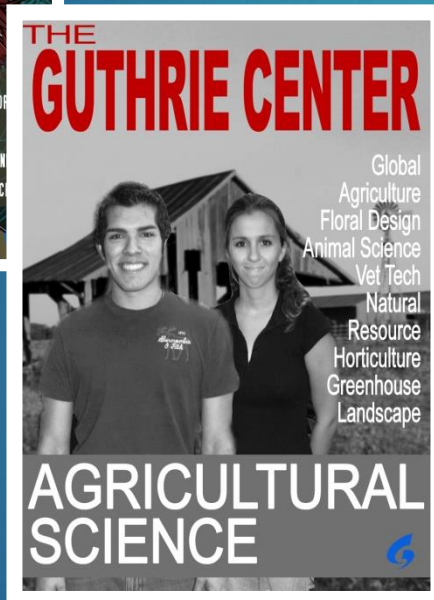
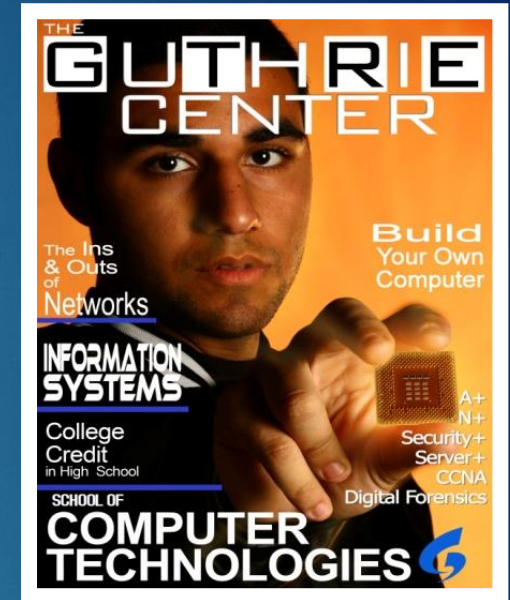
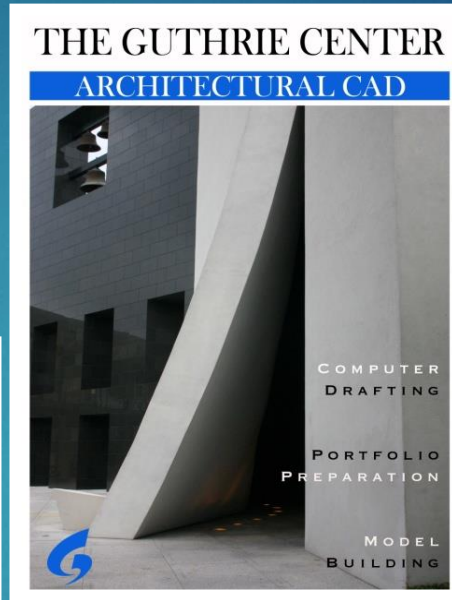


Yes Prep



Bus transportation is provided from the high schools to the GC and back!

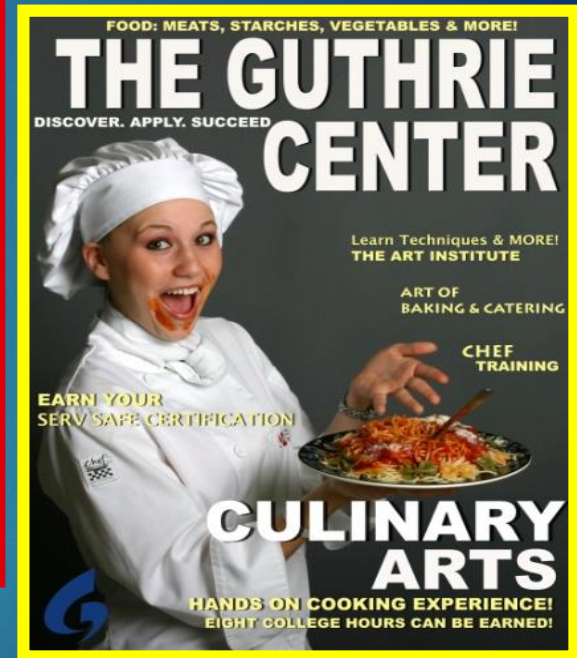
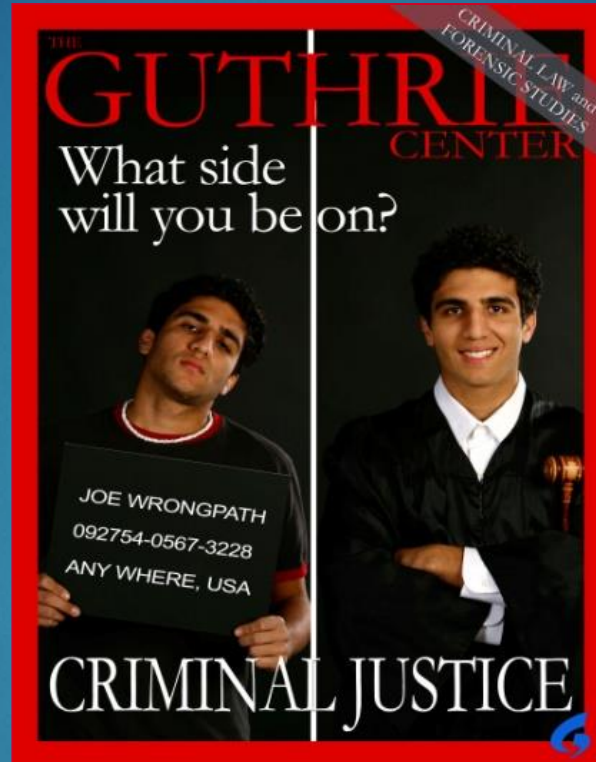
THE Guthrie CENTER



THE **Guthrie** CENTER THE **Guthrie** CENTER THE **Guthrie** CENTER THE **Guthrie** CENTER



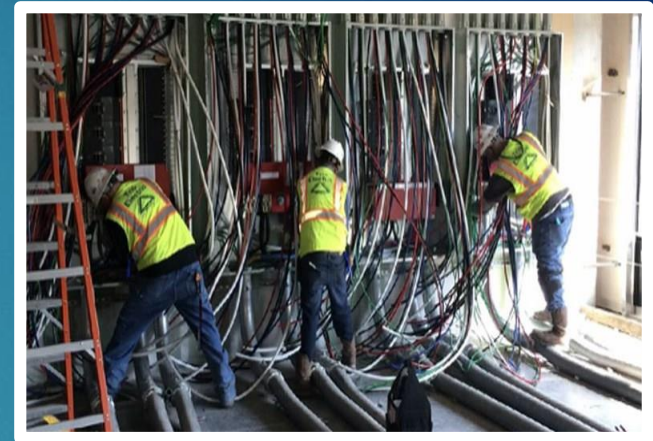
THE Guthrie CENTER



THE **Guthrie** CENTER THE **Guthrie** CENTER THE **Guthrie** CENTER THE **Guthrie** CENTER



THE Guthrie CENTER



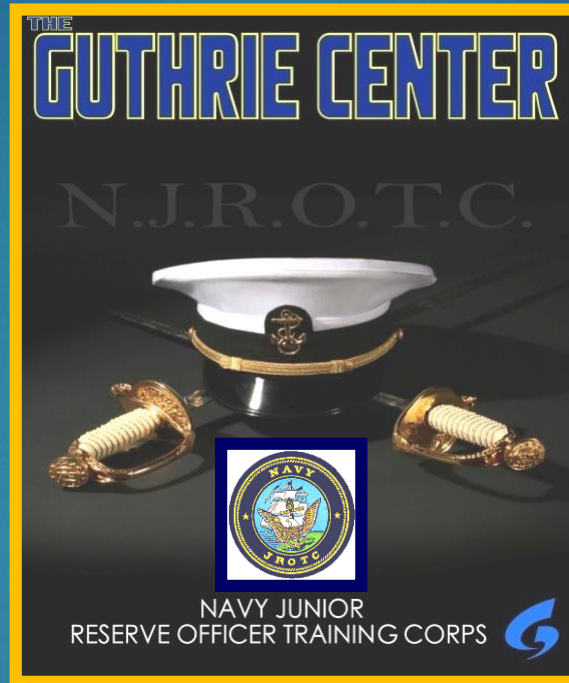
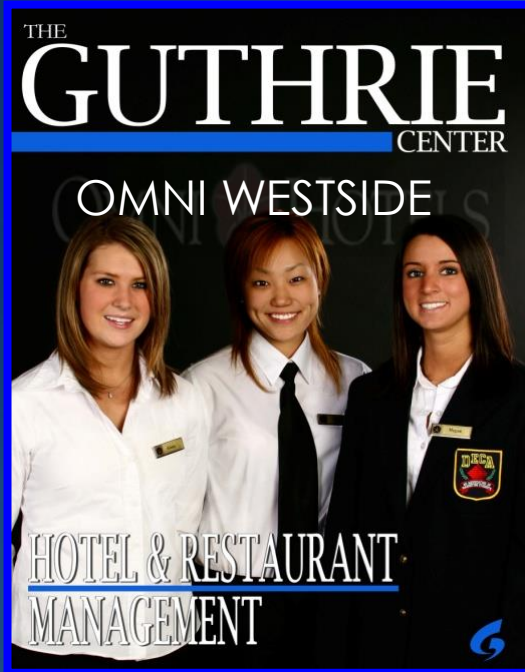
TRIO Electrical Technician Apprenticeship



THE **Guthrie** CENTER THE **Guthrie** CENTER THE **Guthrie** CENTER THE **Guthrie** CENTER



THE Guthrie CENTER



**Distinguished Unit
With Academic Honors**

PHARMACY TECH



THE **Guthrie** CENTER THE **Guthrie** CENTER THE **Guthrie** CENTER THE **Guthrie** CENTER



THE Guthrie CENTER

Opportunities for students to take professional certification exams in their related career areas.

For detailed information about the Guthrie Center programs, check the CTE portion of the Course Catalog or go to

<http://guthriecenter.springbranchisd.com/> .



THE Guthrie CENTER

Check it out for yourself!

Guthrie Center Community Tuesday

October 2nd, 2018

5:00 pm-7:00 pm

Tour the Guthrie Center and visit with the instructors, explore the classrooms and labs, and see these exciting programs in person!

Open to students, parents, educators, business and industry, and other community members.

