

Endorsements &



Programs of Study




Endorsements are a related series of courses that are grouped together by interest or skill set. They provide students in-depth knowledge of a subject area.

Students can choose from 5 Endorsement areas:

1. STEM
2. Business & Industry
3. Public Services
4. Arts & Humanities
5. Multidisciplinary Studies

(Student Booklet – pages 9-10)


Programs of Study are a coherent sequence of CTE courses, industry-based certifications, & work-based learning designed to ensure students are prepared for in-demand, high-skill, high-wage careers. They also support the completion of an endorsement.



SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS

Programs of Study

STEM Endorsement



STEM 1 PROGRAMMING & SOFTWARE DEV	STEM 2 ROBOTICS	STEM 3 ENGINEERING	STEM 4 STEM ACADEMY FOR ARC <small>(HOUSED AT CYPRESS SPRINGS APPLICATION REQUIRED)</small>
9th Grade Computer Science Principles AP (1) or Computer Science I K (1)	9th Grade Principles of Applied Engineering (1)	9th Grade Principles of Applied Engineering (1)	9th Grade Computer Science I K (1-LOTE) Manufacturing Engineer Tech I K (1)
10th Grade Computer Science Principles AP (1) or Computer Science I K (1) or Computer Science II K (1)	10th Grade Robotics I (1)	10th Grade Engineering Design & Presentation I (1)	10th Grade Computer Science II K (1-LOTE) Digital Electronics K (1-math)
11th Grade Computer Science Principles AP (1) or Computer Science II K (1) or *Computer Science III K (1)	11th Grade *Robotics II K (1-math)	11th Grade *Engineering Design & Presentation II (2)	11th Grade *Computer Science III (1) *Engineering Math K (1-math)
12th Grade *Computer Science III K (1) or *Project-based Computer Science: Mobile App Development K (1)	12th Grade *Practicum in Manufacturing (2)	12th Grade *Eng Design & Problem Solving K (1-science) or *Practicum in STEM (2)	12th Grade *Project-based Computer Science: Robotics Programming K (1) *Scientific Research & Design I K (1-science)
Certifications **MTA Intro to Java Programming **Oracle Java SE Programming	Certifications **FANUC Robot Operator 1	Certifications **Autodesk Inventor	Certifications **Certified SolidWorks Associate **MTA Intro to Java Programming **Oracle Java SE Programming
Careers Computer Network Architect (\$111K) Software Developer (\$103K)	Careers Electro-Mechanical Assembler (\$30K) Electro-Mechanical Technician (\$57K) Industrial Machinery Mechanic(\$50K)	Careers Industrial Engineer (\$97K) Mechanical Engineer (\$92K) Chemical Engineer (\$112K) Electrical Engineer (\$98K)	Careers Mechanical/Electrical Engineer(\$95K) Hardware Engineer (\$99K) CAD Drafter (\$46K) Software Engineer (\$100K) Computer Programmer (\$75K)

Choosing an *Endorsement & Program of Study* may seem overwhelming...



Remember that this is a plan - there will be an opportunity to make changes in high school!

Simply start by asking yourself a few questions:

- *What are my interest, talents, and/or career aspirations?
- *What are my post-secondary goals?

Explore career options in *Xello*

Mycfisd.net/Additional Resources/Xello SSO Student Access

Xello Dashboard
Explore Options
Explore Careers

Click on *More Filters/Career Clusters or School Subjects*

EXPLORE CAREERS

Minimum Salary: \$0 to \$25,000+

Education: High School 2-Year College or Technical Training 4-Year College

Career Demand: High Increasing Stable Declining

Career Clusters: Architecture & Construction Education & Training Human Services Manufacturing Agriculture, Food & Natural Resources Hospitality & Tourism Arts, A/V Technology & Communications Information Technology Science, Technology, Engineering & Math Business, Marketing & Finance Law & Public Service

588 Careers

*Check out the **CFISD CTE videos** to learn more about some of the programs available here in our district*

https://www.youtube.com/results?search_query=cfisd+cte



CFISD CTE Overview

15 views • 1 month ago

 CFISD CTE

Nearly 70 industry certifications, 130-plus courses and priceless real-life experience awaits students in CFISD's career and ...

(Note: There are several different videos available)

Then...

AGRICULTURE, FOOD AND NATURAL RESOURCES

Endorsement: Business & Industry

1 – Select your Endorsement(s)

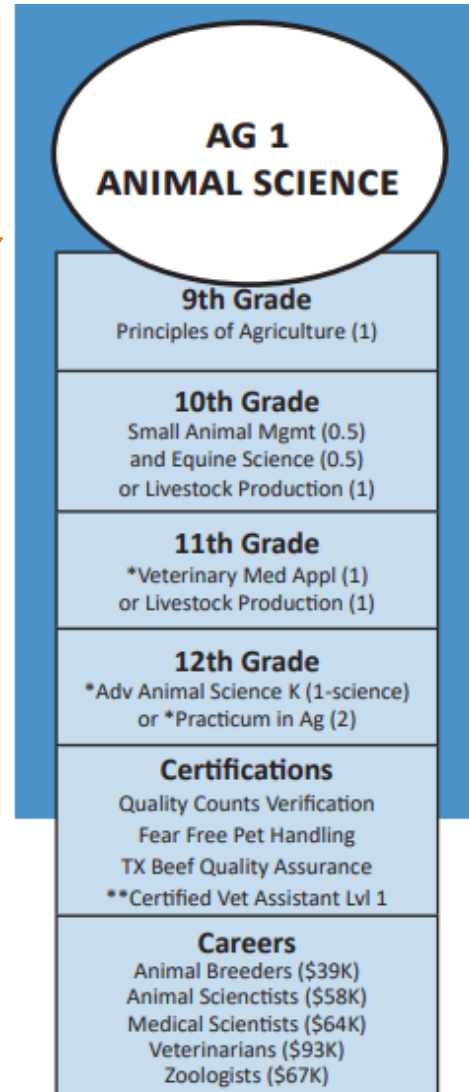
*(example: Business & Industry/
Ag, Food & Natural Resources)*

2 - Choose an Option or Program of Study

(example: Ag1 – Animal Science)

3 – Use the list of courses provided to make your selections for each year

4 – Add these courses to your 4-Year Plan



If you have space available...

You may want to consider including:

- ❖ Additional courses in any of the 4 core academic areas (English, Math, Science, Social Studies)
- ❖ Additional courses from your Endorsement area(s)
- ❖ Any of the courses listed in the Student Booklet – page 49

Course Title	#	9	10	11	12	Description
Professional Communications (.5 credit)	06020	*	*	*	*	Develop effective interpersonal communication skills
Touch System Data Entry (Keyboarding) (.5 credit)	51220	*	*	*	*	Improve speed and accuracy on the keyboard
LeadWorthy (.5 credit)	60220	*	*	*	*	Activity-oriented course designed to develop personal responsibility, leadership, and professional skills through explicit social-emotional participatory learning experiences
Photojournalism (.5 credit)	08620	*	*	*	*	Introduces the world of photography and journalism; must have your own digital camera
Principles of Education & Training	86423	*	*	*		Basic knowledge and skills needed for a career in education
Lifetime Nutrition & Wellness (.5 credit)	85720		*	*	*	9th graders may enroll after taking Principles of Human Services or Principles of Hospitality & Tourism in middle school Nutrition, digestion, calories/metabolism, diet-related diseases, food allergies, safety & sanitation in food preparation
Automotive Basics	93943	*	*			Basic repair, maintenance and servicing of vehicle systems
Business Information Management I	54623	*	*	*	*	Word processing, spreadsheets, multimedia presentations, databases, internet research, & emerging technologies
Journalism I	08123	*	*	*	*	Required prerequisite for Adv. Journalism I – Yearbook or Adv. Journalism I - Newspaper Writing, technology, visual, and electronic media are used as tools for learning as students produce effective communications
Debate I	06513	*	*	*	*	Required prerequisite for Debate II-IV Study current events and logic while preparing and presenting arguments on a variety of controversial issues; participation in competitive speech and debate events is required
Intro to Cosmetology	94023	*	*	*		Hair style, manicures, skin care, make up, and other aspects of the personal care service industry
Digital Media	54543	*	*	*	*	Design and create multimedia projects using Adobe Photoshop; potential for certification
Medical Terminology	94323	*	*			Medical terms, word roots, abbreviations and acronyms
Child Development	85233		*	*	*	Child growth from prenatal through school-age children
Personal Financial Literacy (.5 credit)	10400		*	*	*	Analyze earning and spending, saving & investing, credit & borrowing, insuring & protecting, and college & postsecondary education & training
Money Matters	53913	*	*	*	*	Bank record management, credit cards, investing, insurance and budgets
Creative & Imaginative Writing (.5 or 1 credit)	09520 09523		*	*	*	Develop increased skill, creativity, and versatility as writers
ACT/SAT Prep (.5 credit)	00370			*	*	Prerequisite: Completion of or concurrent enrollment in Algebra II Provides students with strategies for college entrance exams
African-American Studies	14213		*	*	*	Focus on the historical and cultural contributions of African-Americans
Mexican-American Studies	14113		*	*	*	Focus on the historical and cultural contributions of Mexican-Americans
Psychology (.5 credit) or Psychology AP (.5 credit)	13620 13650			*	*	Understanding the concept of human behavior, theories of personality, human growth & development
Sociology (.5 credit)	13420			*	*	Understanding of self and the society in which one lives
Street Law (.5 credit) or (1 credit)	13720 13723			*	*	Court structure, criminal procedure, civil rights & other legal issues; criminal law one semester & civil law the other semester
World Area Studies K or H (.5) or (1 credit)	14010 14113			*	*	Study of geography, culture, history, politics, and economic development of selected regions
PALS I PALS II	60023 60123			*	*	Peer Assistance & Leadership program; work as a peer mentor with elementary, middle & high school age youth; effective training in resiliency strategies. Application required
College Readiness & Study Skills (.5 credit)	00340				*	Open to students who plan to attend post-secondary education; designed to help students transition into the post-secondary environment

Complete & Check Your 4-Year Plan

- List High School credits earned in Middle School (*Student Booklet – page 50*)
- Fill in course names & levels for required courses listed
- Add Health, LOTE, Fine Arts, & PE requirements
- Add Endorsement/Program of Study courses
- List Alternate Electives for 9th Grade (1st & 2nd choice)

Directions: Courses required at a specific grade level are noted in the chart below. Students have flexibility in determining the year of study for the following graduation requirements: World History or World Geography, Foreign Language, Fine Arts, PE and Health.

Pds	High School credit earned in Middle School	9 th Grade	10 th Grade	11 th Grade	12 th Grade
1		English I _____ (Level)	English II _____ (Level)	English III _____ (Level)	English: _____ (Level or Course name)
2		Math: _____ (Level)	Math: _____ (Level)	Math: _____ (Level)	Math: _____ (Level)
3		Biology _____ (Level)	Science: _____ (Level)	Science: _____ (Level)	Science: _____ (Level)
4		PACE (½) & _____ (½)		U.S. History _____ (Level)	Government (½) _____ (Level) Economics (½) _____ (Level)
5					
6					
7					

Alternate Electives for 9th Grade: 1. _____ 2. _____