

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:

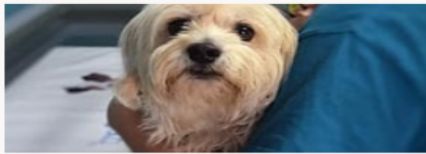
1. STEM
2. Business & Industry
3. Public Services
4. Arts & Humanities
5. Multidisciplinary Studies

(Student Booklet – pages 12-13; 14-17)

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.

AGRICULTURE, FOOD, & NATURAL RESOURCES

AG 1 – Animal Science



9TH GRADE
Principles of Agriculture (1)
Quality Counts Verification

10TH GRADE
Small Animal Mgmt (0.5) & Equine Sci (0.5)
*Fear Free Vet, *Equine Mgmt & Eval*
OR
Livestock Production (1)
*TX BQA, *Fundamentals of Animal Sci*

11TH GRADE
*Vet Med Applications (1)
**Vet Med Appl Cert, *Cert Vet Assist 1*
OR
Livestock Production (1)
*TX BQA, *Fundamentals of Animal Sci*

12TH GRADE
*Advanced Animal Science K (1-sci)
OR
*Practicum in Agriculture (2)
Certified Vet Assistant 2

POTENTIAL OCCUPATIONS

Certified Vet Assistant
\$15 per hour

Animal Breeder
\$39,139

Animal Scientist
\$57,533

Zoologist
\$67,309

Veterinarian
\$93,496

AG 2 – Plant Science



9TH GRADE
Principles of Agriculture (1)
Quality Counts Verification

10TH GRADE
Greenhouse Operation & Production (1)
OR
Floral Design (1-fine arts)
**TSFA Knowledge Based Floral Cert.
TSFA Level I Floral Certification

11TH GRADE
*Advanced Plant & Soil Science K (1-sci)
**BASF Plant Science Certification*
OR
*Advanced Floral Design (1)
**TSFA Level II Floral Certification*

12TH GRADE
*Project-based Research Plant Science (1)
**Benz Principles of Floral Design*
OR
*Practicum in Agriculture (2)

POTENTIAL OCCUPATIONS

Soil & Plant Scientist
\$65,370

Biological Technician
\$42,931

Floral Designer
\$31,630

Landscaping Supervisor
\$44,408

AG 3 – Agricultural Technology & Mechanical Systems



9TH GRADE
Principles of Agriculture (1)
Quality Counts Verification

10TH GRADE
Ag Mechanics (1)
*OSHA-10hr
AWS D9.1 Sheet Metal Welding

11TH GRADE
*Ag Equipment (1)
**AWS D1.1 Structural Steer*

12TH GRADE
*Project-based Ag Mechanics (1)
*OSHA 30-hr
Additional AWS
OR
*Practicum in Agriculture (2)
**Additional AWS*

POTENTIAL OCCUPATIONS

Small Engine Mechanic
\$32,406

Welder
\$50,648

Farm Equipment Mechanic
\$39,915

Heavy Equipment Mechanic
\$47,299

Agricultural Engineer
\$64,792

AG 4 – Environmental & Natural Resources



9TH GRADE
Principles of Agriculture (1)
Quality Counts Verification

10TH GRADE
Wildlife, Fisheries & Ecology Mgmt (1)
*Hunter Safety
Boater Safety
Angler Safety*

11TH GRADE
*Range Ecology Mgmt (1)
**NOCTI Natural Resources Systems*

12TH GRADE
*Practicum in Agriculture (2)

POTENTIAL OCCUPATIONS

Environmental Sci & Protection Tech
\$40,268

Environmental Scientists
\$77,896

Environmental Engineer
\$86,757

Zoologists & Wildlife Biologist
\$67,309

Surveying & Mapping Technician
\$44,070

Choosing an *Endorsement & Option/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 available resources:

- District website
- Xello

Resources on the district website! www.cfisd.net

*Academics

*Career & Technical Education

*Programs of Study

(Includes CFISD-produced videos about each CTE area)

Agriculture



Agricultural education prepares students for successful careers and a lifetime of informed choices in the global agriculture, food, fiber and natural resources systems. Through agricultural education, students are provided opportunities for leadership development, personal growth and career success. Agricultural education instruction is delivered through three major components: 1- Classroom/lab experiences, 2-Supervised Ag Experiences, and 3-Leadership development experiences through FFA.



Programs of Study

For more information on a specific course of study, click on the icon below



[Animal Science](#)



[Plant Science](#)



[Agricultural
Technology &
Mechanical
Systems](#)



[Environmental &
Natural Resources](#)

Career & Technical Education

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TWITTER: @CFISDCTE
YOUTUBE: @CFISDCTE



Explore career options in **Xello**

[Mycfisd.net/AdditionalResources/Xello SSO Student Access](https://mycfisd.net/AdditionalResources/XelloSSOStudentAccess)

Xello Dashboard

Explore/Explore Options

Careers, Colleges, Majors, Pathways

The screenshot shows the Xello dashboard interface. At the top, there is a navigation bar with four main menu items: Home (house icon), About Me (person icon), Explore (rocket icon), and Plans (document icon). Below this, the Explore menu is expanded, showing a list of options: Explore Options (rocket icon), Careers (briefcase icon), Colleges (school icon), Majors (graduation cap icon), and Pathways (fork icon). To the right of the Explore menu, there is a 'Related' section with a list of links: Course Planner, Scholarships, My Resume, Portfolios, and My Saved Options.

Click on [Careers/Explore Careers/More Filters/Career Clusters or School Subjects](#)

Now...

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

AGRICULTURE, FOOD AND NATURAL RESOURCES

Endorsement: Business & Industry

AG 1 – Animal Science



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Quality Counts Verification

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Complete & Check Your 4-Year Plan

- Indicate **Career Goal**, **Endorsement**, & **Program of Study**
- List High School credits earned in Middle School (*see Student Booklet – page 51*)
- Circle or fill in course names, levels, & course #'s for required courses listed
- Add Health, LOTE, Fine Arts, & PE requirements
- Add Endorsement/Program of Study courses & course #'s
- List Alternate Electives for 9th Grade (1st & 2nd choice)

◆ Cypress-Fairbanks ISD ◆
High School Four-Year Plan – Foundation High School Program + Endorsement

CAREER GOAL: _____

ENDORSEMENT	OPTION	PROGRAM OF STUDY (if applicable)

Student Name: _____

Student ID: _____ Grade: _____

Current Campus: _____ Next Year Campus: _____

- > High School Credits earned in Middle School: _____
- > Programs in which you plan to participate (Sports, Fine Arts, etc.): _____

Pds	9 th Grade	10 th Grade	11 th Grade	12 th Grade		
1	English I – 01123 English I K - 01013 English I H - 01063	English II - 02123 English II K - 02013 English II H - 02063	English III - 03123 English III K - 03013 English III K/DC - 03083 English III H/DC - 03093 English III AP - 03053 English III H/AP - 03063	English IV - 04123 English IV K - 04013 English IV K/DC - 04023 (1301/1302 Lone Star) English IV AP - 04043 English IV H/AP - 04063 English IV AP/DC - 04053 (2322/2323 Lone Star) English IV H/AP/DC - 40473 (2322/2323 Lone Star)		
2	Math: _____ Level _____ Course # _____	Math: _____ Level _____ Course # _____	Math: _____ Level _____ Course # _____	Math: _____ Level _____ Course # _____		
3	Biology – 31123 Biology K – 31013 Biology H – 31063	Science: _____ Level _____ Course # _____	Science: _____ Level _____ Course # _____	Science: _____ Level _____ Course # _____		
4	(World History/Geography/or Elective) _____ (Course #)	(World History/Geography/or Elective) _____ (Course #)	US History – 10123 US History K – 10313 US History AP – 10353 US History H/AP - 10363 US History DC - 10253 US History H/DC - 10263	Govt - 14120 PFL + Eco -15210 Govt K-14210 Eco K-15010 Govt DC-14550 Macro Eco AP-15050 Govt H/DC-14580 Macro Eco H/AP-15080 Govt AP-14250 Macro Eco AP/DC-15070 Govt H/AP-14280 Macro Eco H/AP/DC-15080		
5	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; vertical-align: top;"> PACE (½) Course # 00120 </td> <td style="width: 50%; vertical-align: top;"> Health (½) Course # 46120 (or) _____ (Course #) (½) </td> </tr> </table>	PACE (½) Course # 00120	Health (½) Course # 46120 (or) _____ (Course #) (½)	_____ (Course #)	_____ (Course #)	_____ (Course #)
PACE (½) Course # 00120	Health (½) Course # 46120 (or) _____ (Course #) (½)					
6	_____ (Course #)	_____ (Course #)	_____ (Course #)	_____ (Course #)		
7	_____ (Course #)	_____ (Course #)	_____ (Course #)	_____ (Course #)		

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