

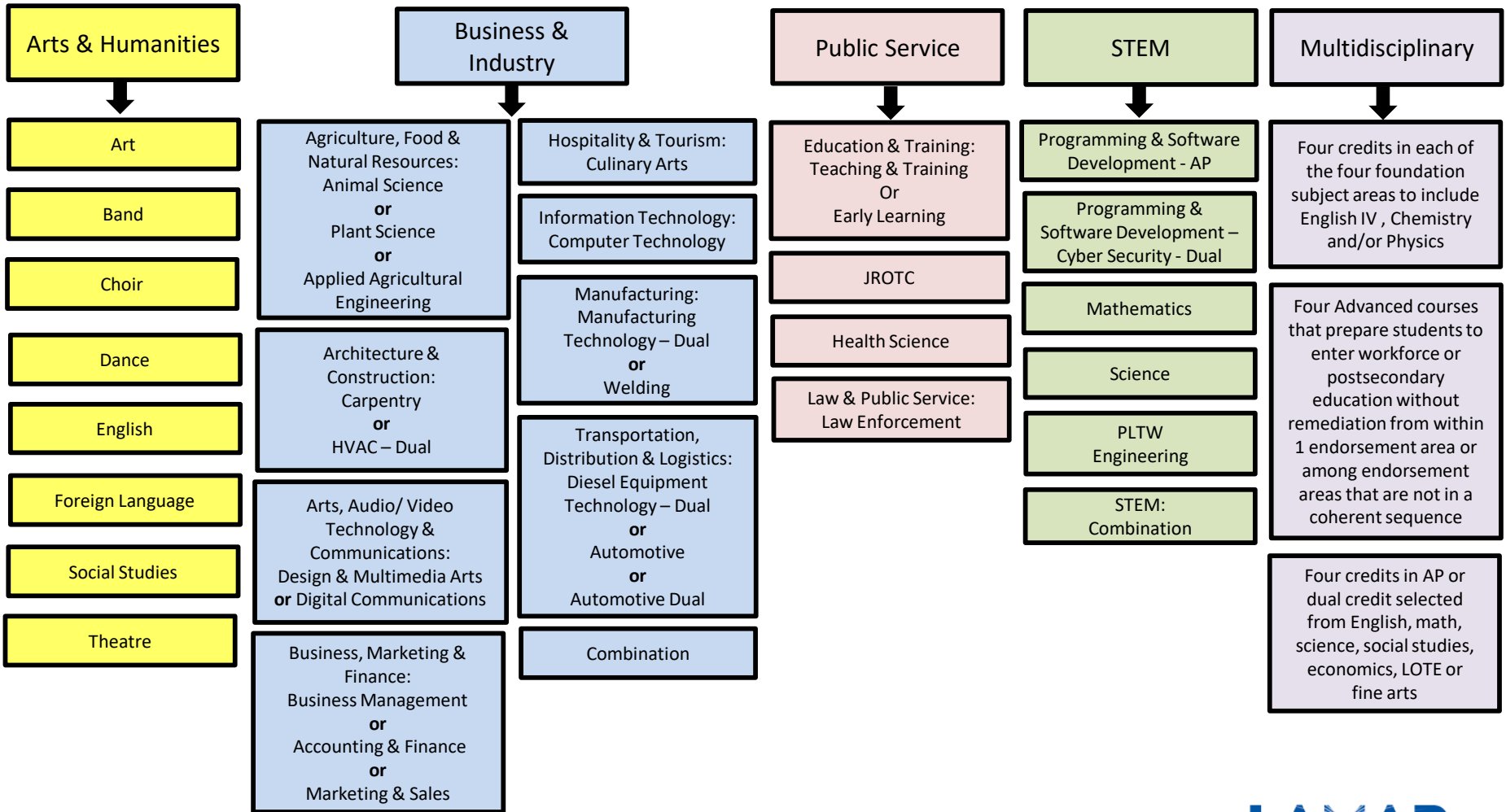
Multidisciplinary

# LCISD Programs of Study By Endorsement 2021-2022

**PUBLIC  
SERVICES**



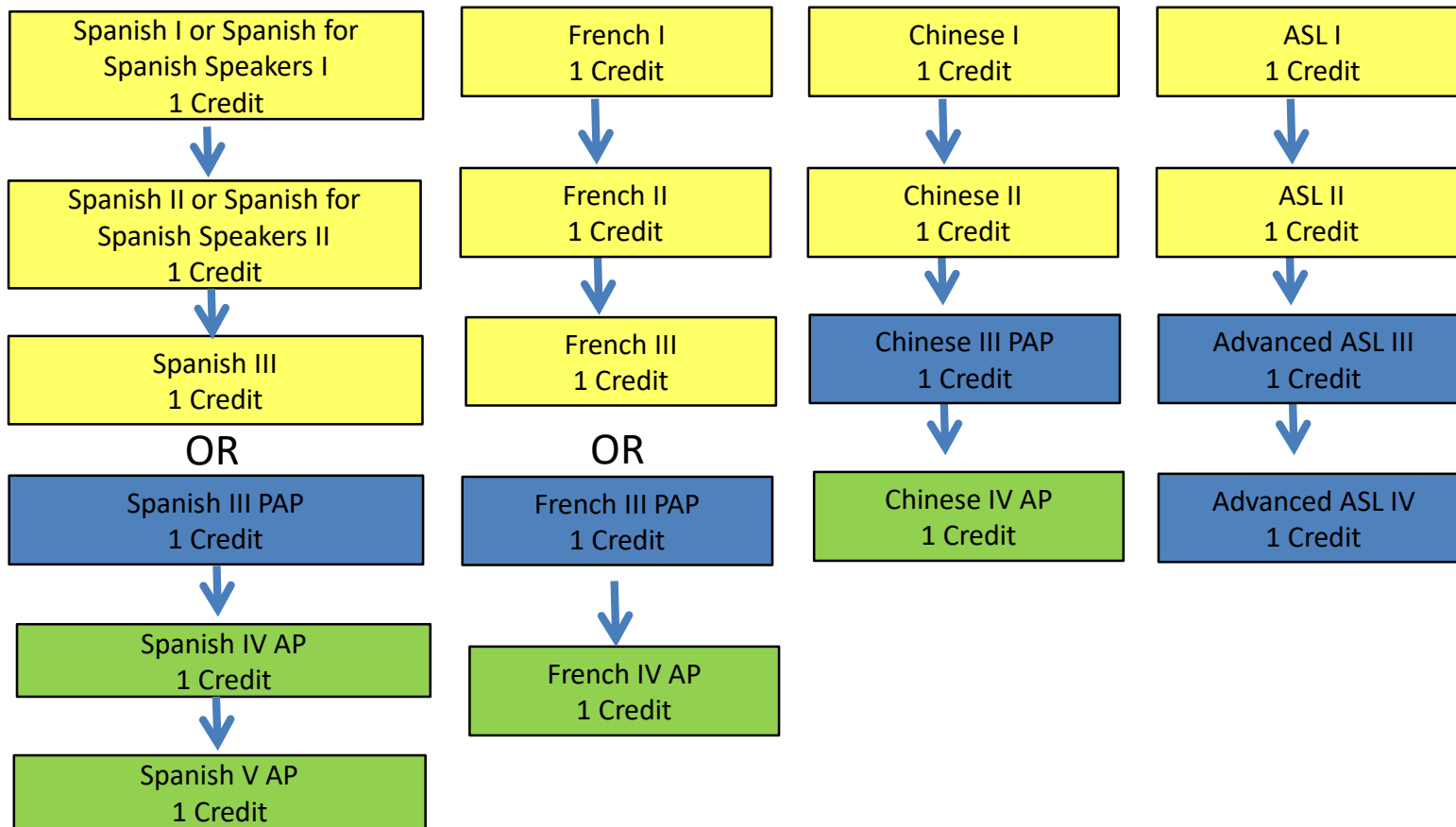
**ARTS  
& humanities**



# Arts & Humanities Endorsement

## 4 Credits in the **SAME** Language Sequence

### 2021-2022



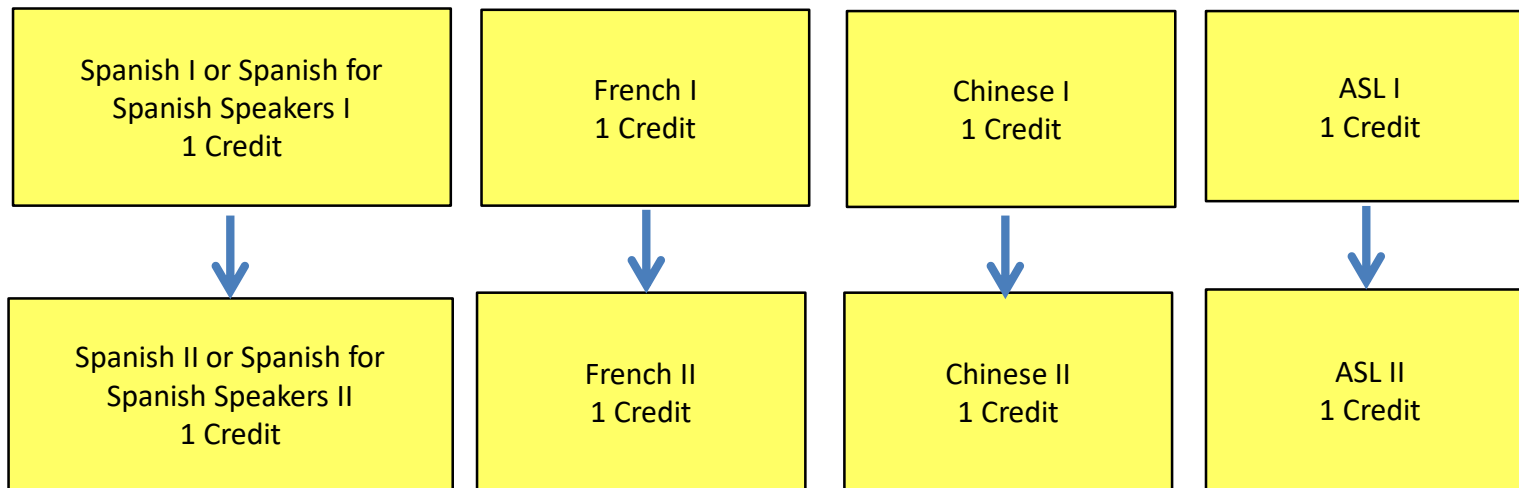
- Academic
- Capstone/PAP
- AP/Dual
- Certification
- Offered in 8<sup>th</sup> Grade

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# Arts & Humanities Endorsement

## 2 Credits each in 2 **different** Language Sequences

### 2021-2022

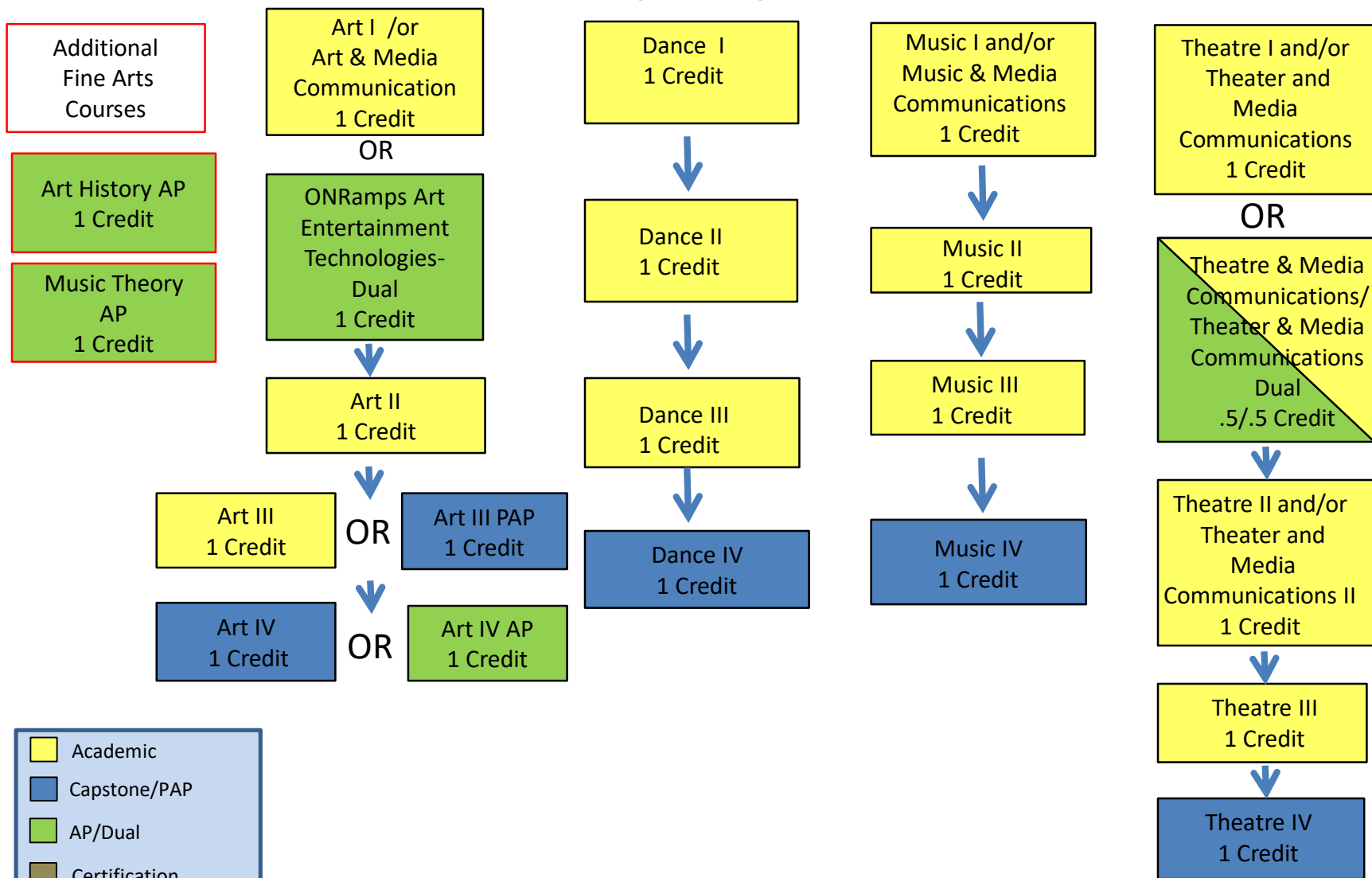


- Academic
- Capstone/PAP
- AP/Dual
- Certification
- Offered in 8<sup>th</sup> Grade

# Arts & Humanities Endorsement

## 4 Credits in 1 or 2 Subject Areas in Fine Art Sequence

### 2021-2022

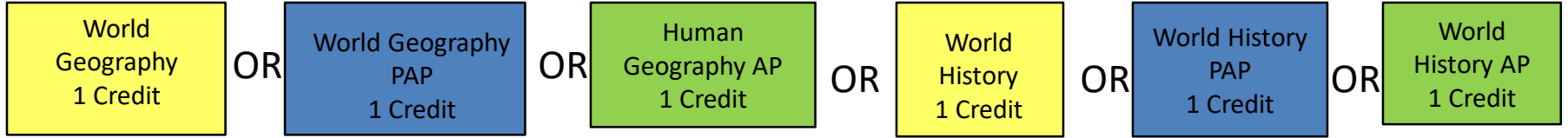


- Academic
- Capstone/PAP
- AP/Dual
- Certification
- Offered in 8<sup>th</sup> Grade

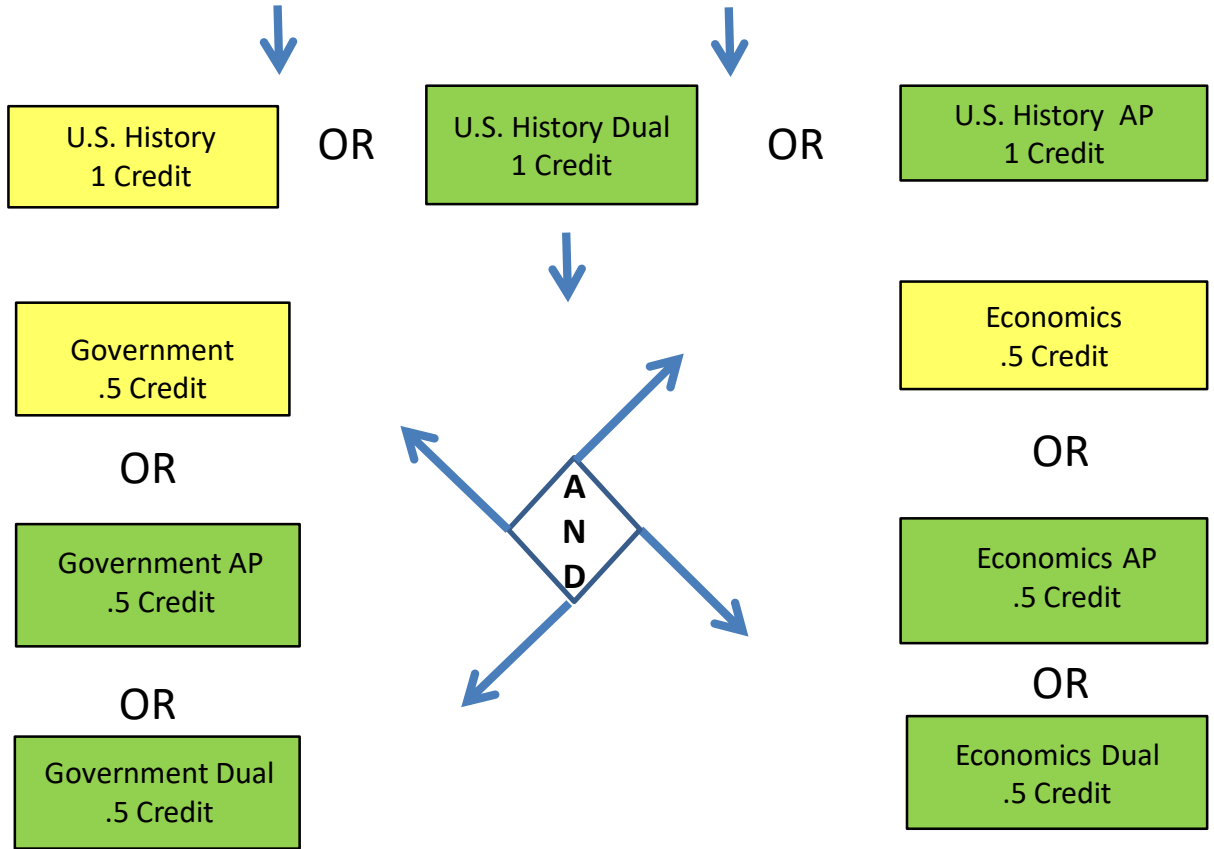
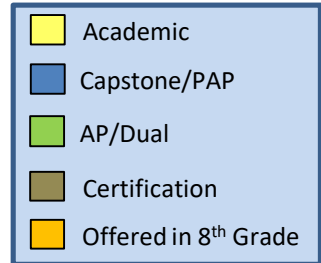
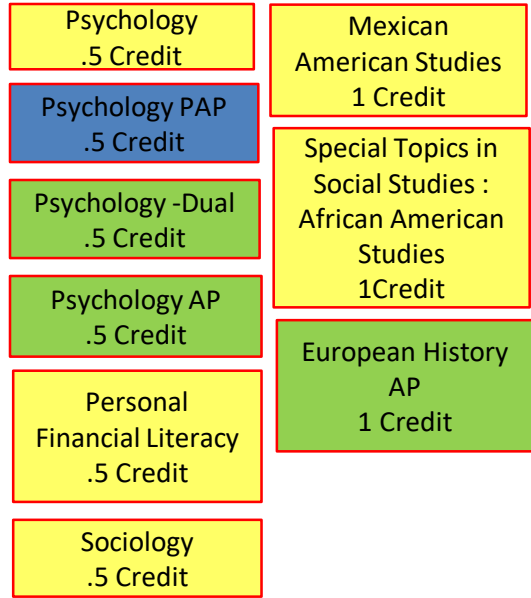
# Arts & Humanities Endorsement: Social Studies

## 5 credits in Social Studies

### 2021-2022



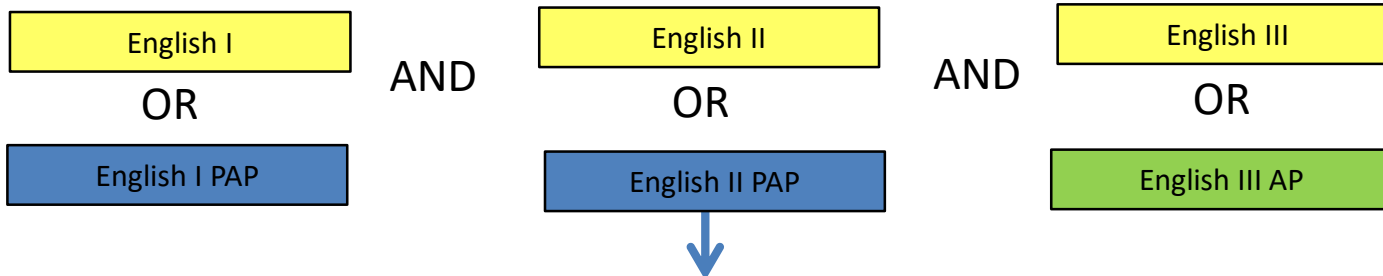
Additional Social Studies Courses



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# Arts & Humanities Endorsement: English

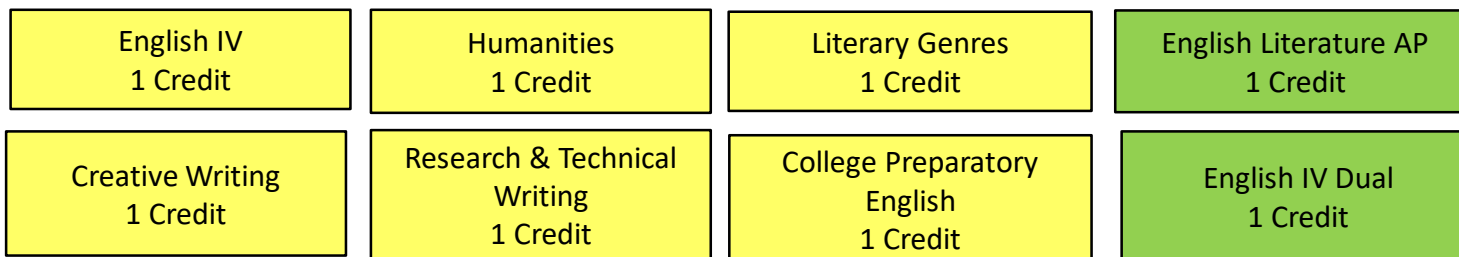
## 7 credits in English 2021-2022



(1) Advanced English credit from one of the following Advanced Courses:  
 English IV, Creative Writing, Humanities, Literary Genres, Research & Technical Writing, Debate III,  
 Oral Interpretation III, IS Speech, IS Journalism, Advanced Journalism III, Newspaper III, Yearbook III, AP English Literature &  
 Composition, Dual Credit English, College Prep English

AND

(3) Additional Credits from any of the following, not taken previously



- Academic
- Capstone/PAP
- AP/Dual
- Certification
- Offered in 8<sup>th</sup> Grade

# Business/Industry Endorsement: English

## (4) English elective credits

### 2021-2022



(1) Advanced English credit from one of the following Advanced Courses:  
 English IV, Creative Writing, Humanities, Literary Genres, Research & Technical Writing, Debate III,  
 Oral Interpretation III, IS Speech, IS Journalism, Advanced Journalism III, Newspaper III, Yearbook III, AP English Literature &  
 Composition, Dual Credit English, College Prep English



Three (3) levels in one of the following :

Journalism 1 Credit	Journalism 1 Credit	Journalism 1 Credit	Debate I 1 Credit
Advanced Broadcast: Journalism I 1 Credit	Advanced Journalism: Newspaper I 1 Credit	Advanced Journalism: Yearbook I 1 Credit	Debate II 1 Credit
Advanced Broadcast: Journalism II 1 Credit	Advanced Journalism: Newspaper II 1 Credit	Advanced Journalism: Yearbook II 1 Credit	Debate III 1 Credit
Advanced Broadcast: Journalism III 1 Credit	Advanced Journalism: Newspaper III 1 Credit	Advanced Journalism: Yearbook III 1 Credit	Independent Study in Speech (Debate IV) 1 Credit

- Academic
- Capstone/PAP
- AP/Dual
- Certification
- Offered in 8<sup>th</sup> Grade



# Business/Industry Endorsement Agriculture, Food, & Natural Resources 2021-2022



Additional Elective  
Courses

Agribusiness  
Management &  
Marketing  
1 Credit

Livestock  
Production  
1 Credit

Principles of  
Applied  
Engineering  
1 Credit

Principles of  
Technology  
1 Credit

- Academic
- Capstone/PAP
- AP/Dual
- Certification
- Offered in 8<sup>th</sup> Grade

**Principles of Agriculture, Food & Natural Resources**  
1 Credit

Choose Pathway

## Animal Science

Small Animal Management .5 Credit **AND** Equine Science .5 Credit

Veterinary Medical Applications  
1 Credit

Advanced Animal Science  
1 Credit

**OR**

Practicum in Agriculture Food & Natural Resources (Veterinary Medical Applications) 2 Credits  
Extended Practicum 3 credits  
Veterinary Assistant Level 1 Certification

## Plant Science

Floral Design 1 Credit  
Texas State Floral Association, Level 1 Certification

Horticultural Science  
1 Credit

Landscape Design & Management .5 Credit

**AND**

Turf Grass Management .5 Credit

**AND/OR**

Advanced Plant & Soil Science 1 Credit  
Wastewater Collections, Class 1 and Water Operators, Class D Certification

## Applied Agricultural Engineering

Agricultural Mechanics & Metal Technologies  
1 Credit

Agricultural Structures Design & Fabrication Technologies  
1 Credit

Practicum in Agriculture Food & Natural Resources Applied Agricultural Engineering 2 Credits  
Extended Practicum 3 credits  
AWS Certification

Practicum in Agriculture Food & Natural Resources Applied Agricultural Engineering (2<sup>nd</sup> time) 2 Credits  
Extended Practicum (2<sup>nd</sup> time) 3 credits  
AWS Certification

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# Business/Industry Endorsement Manufacturing 2021-2022



## Additional Elective Course(s)

For students taking Agriculture, Food & Natural Resources in 8<sup>th</sup> grade, complete **Agricultural Mechanics & Metal Technologies** 1 Credit in 9<sup>th</sup> grade and **Agricultural Structures Design & Fabrication** 1 Credit in 10<sup>th</sup> grade

Principles of Applied Engineering 1 Credit

Principles of Technology 1 Credit

Agribusiness Management & Marketing 1 Credit

Introduction to Process Technology- Dual (WCJC) (\*) Principles of Technology required - 1 credit (Fall)

Petrochemical Safety, Health & Environment- Dual (WCJC) 1 Credit (Spring)

- Academic
- Capstone/PAP
- AP/Dual
- Certification
- Offered in 8<sup>th</sup> Grade

**Principles of Agriculture, Food & Natural Resources**  
1 Credit



**Agricultural Mechanics & Metal Technologies**  
1 Credit

Choose Pathway

### Manufacturing Technology



**Precision Metal Manufacturing I**  
Dual (TSTC)  
2 Credits



**Precision Metal Manufacturing II**  
Dual (TSTC)  
2 Credits

### Welding



**Welding I**  
2 Credits  
AWS Certification

OR

**Welding I**  
Dual (TSTC)  
2 Credits



**Welding II**  
2 Credits  
AWS Certification

OR

**Welding II**  
Dual (TSTC)  
2 Credits



Transportation provided to and from TSTC during the school day.

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# Business/Industry Endorsement

## Manufacturing: Manufacturing Technology

### Industry Certification Course Sequence 2021-2022



For students taking Agriculture, Food & Natural Resources in 8<sup>th</sup> grade, complete **Agricultural Mechanics & Metal Technologies** 1 Credit in 9<sup>th</sup> grade and **Agricultural Structures Design & Fabrication** 1 Credit in 10<sup>th</sup> grade

9 <sup>th</sup> Grade		SM1	SM2	11 <sup>th</sup> Grade		SM1	SM2
Requirements				Requirements			
English I	✓	✓	English III	✓	✓		
Algebra	✓	✓	Algebra II	✓	✓		
Bio	✓	✓	3 <sup>rd</sup> Science	✓	✓		
Wld. Geo/ or Wld. History	✓	✓	Govt/Eco	✓	✓		
PE	✓	✓	Elective	✓	✓		
LOTE YR 1	✓	✓	Precision Metal Manufacturing I 7184WD	✓	✓	Precision Metal Manufacturing I 7184XD	
Agricultural Mechanic & Metal Technologies	✓	✓	Precision Metal Manufacturing I 7184WD	✓	✓	Precision Metal Manufacturing I 7184XD	
10 <sup>th</sup> Grade		SM1	SM2	12 <sup>th</sup> Grade		SM1	SM2
Requirements				Requirements			
English II	✓	✓	English IV	✓	✓		
Geometry	✓	✓	4 <sup>th</sup> Math	✓	✓		
Chem/Phys/IPC	✓	✓	4 <sup>th</sup> Science	✓	✓		
US History	✓	✓	Elective	✓	✓		
Fine Art	✓	✓	Elective	✓	✓		
LOTE YR 2	✓	✓	Precision Metal Manufacturing II 7186WD	✓	✓	Precision Metal Manufacturing II 7186XD	
Agricultural Structures & Design Fabrication	✓	✓	Precision Metal Manufacturing II 7186WD	✓	✓	Precision Metal Manufacturing II 7186XD	

Transportation provided to and from TSTC during the school day.

- Academic
- Capstone/PAP
- AP/Dual
- Certification
- Offered in 8<sup>th</sup> Grade



# Business/Industry Endorsement Manufacturing: Manufacturing Technology

## Industry Certification Course Sequence 2021-2022



For students beginning their Pathway in 9<sup>th</sup> grade

9 <sup>th</sup> Grade			11 <sup>th</sup> Grade		
SM1	SM2		SM1	SM2	
<b>Requirements</b>			<b>Requirements</b>		
English I	✓	✓	English III	✓	✓
Algebra	✓	✓	Algebra II	✓	✓
Bio	✓	✓	3 <sup>rd</sup> Science	✓	✓
Wld. Geo/ or Wld. History	✓	✓	Govt/Eco	✓	✓
PE	✓	✓	Elective	✓	✓
LOTE YR 1	✓	✓	Precision Metal Manufacturing I 7184WD	✓	✓
Principles of Agriculture, Food & Natural Resources	✓	✓	Precision Metal Manufacturing I 7184WD	✓	✓
<b>10<sup>th</sup> Grade</b>			<b>12<sup>th</sup> Grade</b>		
SM1	SM2		SM1	SM2	
<b>Requirements</b>			<b>Requirements</b>		
English II	✓	✓	English IV	✓	✓
Geometry	✓	✓	4 <sup>th</sup> Math	✓	✓
Chem/Phys/IPC	✓	✓	4 <sup>th</sup> Science	✓	✓
US History	✓	✓	Elective	✓	✓
Fine Art	✓	✓	Elective	✓	✓
LOTE YR 2	✓	✓	Precision Metal Manufacturing II 7186WD	✓	✓
Agricultural Mechanic & Metal Technologies	✓	✓	Precision Metal Manufacturing II 7186WD	✓	✓

Transportation provided to and from TSTC during the school day.

- Academic
- Capstone/PAP
- AP/Dual
- Certification
- Offered in 8<sup>th</sup> Grade



# Business/Industry Endorsement Manufacturing: Welding

## Industry Certification Course Sequence 2021-2022



### Additional Elective Courses

For students taking Agriculture, Food & Natural Resources in 8<sup>th</sup> grade, complete **Agricultural Mechanics & Metal Technologies 1 Credit** In 9<sup>th</sup> grade and **Agricultural Structures Design & Fabrication 1 Credit** In 10<sup>th</sup> grade

9 <sup>th</sup> Grade	SM1	SM2	11 <sup>th</sup> Grade	SM 1	SM2
<b>Requirements</b>			<b>Requirements</b>		
English I	✓	✓	English III	✓	✓
Algebra	✓	✓	Algebra II	✓	✓
Bio	✓	✓	3 <sup>rd</sup> Science	✓	✓
Wld. Geo/ or Wld. History	✓	✓	Government/Eco	✓	✓
PE	✓	✓	Elective	✓	✓
LOTE YR 1	✓	✓	Welding I Dual 7181WD	✓	✓
Principles of Agriculture, Food & Natural Resources	✓	✓	Welding I Dual 7181WD	✓	✓
10 <sup>th</sup> Grade	SM1	SM2	12 <sup>th</sup> Grade	SM 1	SM2
<b>Requirements</b>			<b>Requirements</b>		
English II	✓	✓	English IV	✓	✓
Geometry	✓	✓	4 <sup>th</sup> Math	✓	✓
Chem/Phys/IPC	✓	✓	4 <sup>th</sup> Science	✓	✓
US History	✓	✓	Elective	✓	✓
Fine Art	✓	✓	Elective	✓	✓
LOTE YR 2	✓	✓	Welding II Dual 7183WD	✓	✓
Agricultural Mechanics & Metal Technologies	✓	✓	Welding II Dual 7183WD	✓	✓

Transportation provided to and from TSTC during the school day.

- Academic
- Capstone/PAP
- AP/Dual
- Certification
- Offered in 8<sup>th</sup> Grade



# Business/Industry Endorsement Architecture & Construction 2021-2022



Additional Elective  
Courses

Interior Design I  
1 Credit

Interior Design II  
2 Credits  
Autodesk Certified User in  
Revit Architecture

Practicum in Interior  
Design  
2 Credits  
Extended Practicum  
3 credits  
Autodesk Certified User in  
Revit Architecture

Heating, Ventilation,  
& Construction (HVAC)

Principles of Construction  
1 Credit

Construction Technology I  
2 Credits

Heating, Ventilation, Air Conditioning  
Refrigeration Technology I-Dual  
TSTC  
1 Credit

Heating, Ventilation, Air Conditioning  
Refrigeration & Technology II-Dual  
TSTC  
2 Credits  
HVAC Technician Certification, Level 1

Carpentry

Principles of  
Construction  
1 Credit

OR

Principles of  
Architecture  
1 Credit

Construction Technology I  
2 Credits  
NCCER Certification

Construction Technology II  
2 Credits  
NCCER Certification

Practicum in Construction  
Technology  
2 Credits  
Extended Practicum  
3 credits  
NCCER Certification

- Academic
- Capstone/PAP
- AP/Dual
- Certification
- Offered in 8<sup>th</sup> Grade

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# Business/Industry Endorsement

## Architecture & Construction: Heating, Ventilation & Construction (HVAC)



### Industry Certification Course Sequence 2021-2022



9 <sup>th</sup> Grade			11 <sup>th</sup> Grade		
SM1	SM2		SM1	SM2	
<b>Requirements</b>			<b>Requirements</b>		
English I	✓	✓	English III	✓	✓
Algebra	✓	✓	Algebra II	✓	✓
Bio	✓	✓	3 <sup>rd</sup> Science	✓	✓
Wld. Geo/ or Wld. History	✓	✓	Fine Art	✓	✓
PE	✓	✓	Government/Eco	✓	✓
LOTE YR 1	✓	✓	Elective	✓	✓
Principles of Construction	✓	✓	HVAC Technology I 7250WD	✓	✓
<b>10<sup>th</sup> Grade</b>			<b>12<sup>th</sup> Grade</b>		
SM1	SM2		SM1	SM2	
<b>Requirements</b>			<b>Requirements</b>		
English II	✓	✓	English IV	✓	✓
Geometry	✓	✓	4 <sup>th</sup> Math	✓	✓
Chem/Phys/IPC	✓	✓	4 <sup>th</sup> Science	✓	✓
US History	✓	✓	Elective	✓	✓
LOTE YR 2	✓	✓	Elective	✓	✓
Construction Technology I	✓	✓	HVAC Technology II 7260WD	✓	✓
Construction Technology I	✓	✓	HVAC Technology II 7260WD	✓	✓

Transportation provided to and from TSTC during the school day.

- Academic
- Capstone/PAP
- AP/Dual
- Certification
- Offered in 8<sup>th</sup> Grade



# Business/Industry Endorsement: Arts, Audio/Video Technology & Communications 2021-2022

Additional Elective  
Course

Professional  
Communications  
.5 Credit

Digital Media  
1 Credit  
Adobe Certification

Digital Design &  
Media Production  
1 Credit

Principles of Arts, Audio/ Video  
Technology & Communications  
1 Credit

## Design & Multimedia Arts

Graphic Design  
& Illustration I  
1 Credit

Graphic Design &  
Illustration II-Lab  
2 Credits  
Adobe Certified  
Associate: Photoshop &  
Illustrator Certification

Practicum Graphic Design  
& Illustration  
2 Credits  
Extended Practicum  
3 credits  
Adobe Certified Associate:  
Photoshop & Illustrator Certification

## Digital Communications

Audio/Video  
Production I  
1 Credit

Audio/Video Production  
II-Lab  
2 Credits  
Adobe Certified Associate:  
Premiere Pro Certification

Practicum in Audio/  
Video Production  
2 Credits  
Extended Practicum  
3 credits  
Adobe Certified Associate:  
Premiere Pro Certification

- Academic
- Capstone/PAP
- AP/Dual
- Certification
- Offered in 8<sup>th</sup> Grade

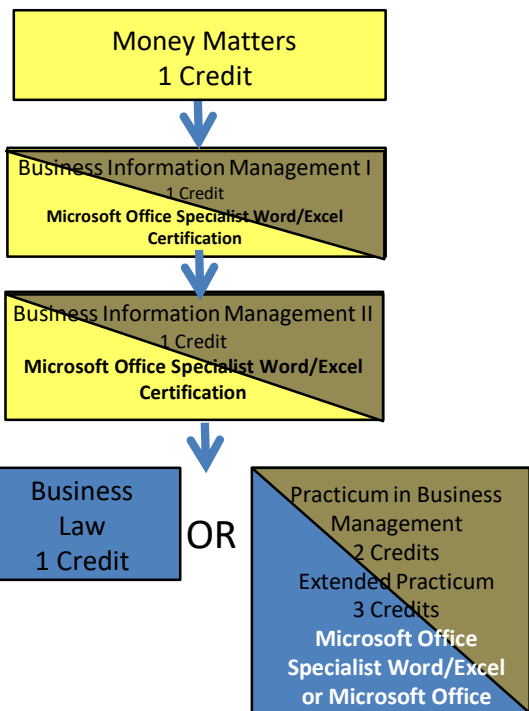
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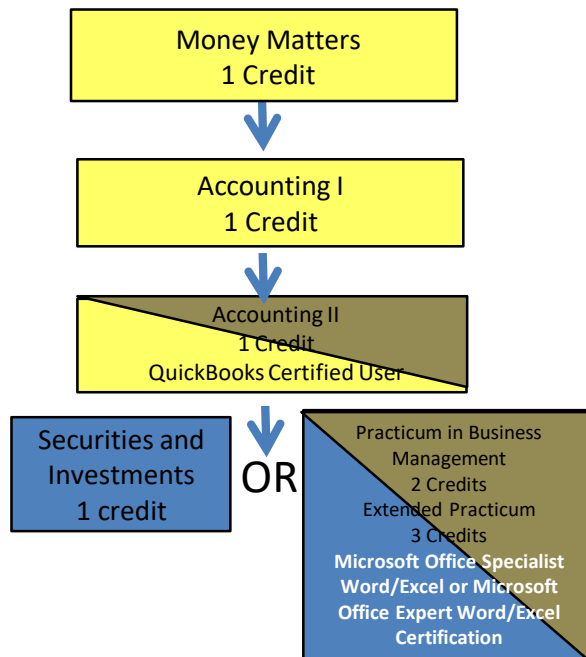
# Business/Industry Endorsement Business, Marketing, & Finance 2021-2022



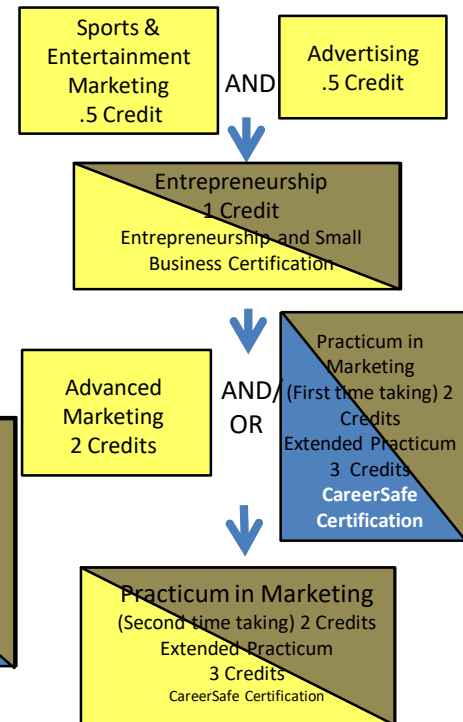
## Business Management



## Accounting & Finance



## Marketing & Sales



- Additional Elective Course
- Principles of Business, Marketing & Finance  
1 Credit  
**\*\*Offered in 8<sup>th</sup> Grade Only\*\***
- Statistics & Business Decision Making  
1 Credit
- Business English  
1 Credit

	Academic
	Capstone/PAP
	AP/Dual
	Certification
	Offered in 8 <sup>th</sup> Grade

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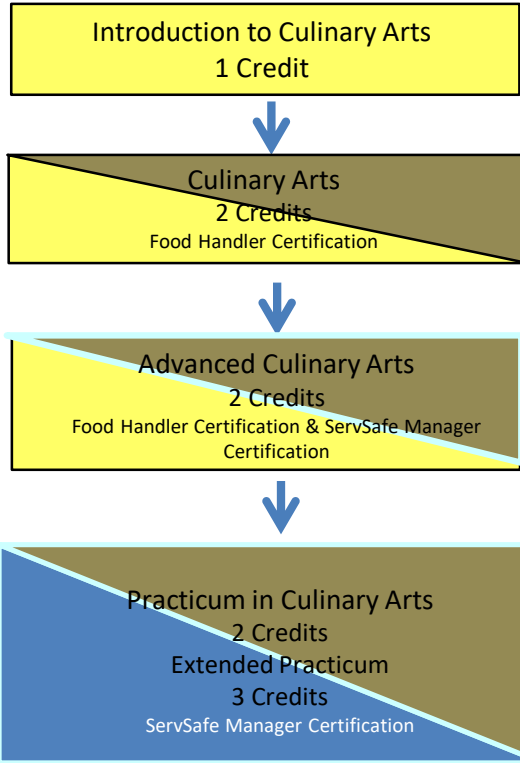
# Business/Industry Endorsement Hospitality & Tourism: Culinary Arts 2021-2022



Additional Elective  
Course

Principles of  
Hospitality &  
Tourism  
1 Credit  
**\*\*Offered in 8<sup>th</sup>  
Grade Only\*\***

Food Science  
1 Credit



- Academic
- Capstone/PAP
- AP/Dual
- Certification
- Offered in 8<sup>th</sup> Grade

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# Business/Industry Endorsement

## Information Technology: Computer Technology

### 2021-2022



Principles of Information Technology  
1 Credit



Computer Maintenance Lab  
2 Credits  
CompTIA Certification



Computer Technician Practicum  
(First time taking) 2 Credits  
Extended Practicum  
3 Credits  
CompTIA Certification



Computer Technician Practicum  
(Second time taking) 2 Credits  
Extended Practicum  
3 Credits  
CompTIA Certification

- Academic
- Capstone/PAP
- AP/Dual
- Certification
- Offered in 8<sup>th</sup> Grade

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# Business/Industry Endorsement Transportation, Distribution & Logistics: Automotive – Diesel Equipment Technology

**2021-2022**

Automotive Basics  
1 Credit

Choose Pathway

## Automotive Dual

Automotive Technology I:  
Maintenance & Light Repair  
Dual (TSTC)  
2 Credits

Automotive Technology II:  
Automotive Service  
Dual (TSTC)  
2 Credits

Practicum in Transportation Systems  
2 Credits  
Extended Practicum  
3 Credits  
ASE Certification

## Automotive

Automotive Technology I:  
Maintenance & Light Repair  
2 Credits  
ASE Certification

Automotive Technology II:  
Automotive Service  
2 Credits  
ASE Certification

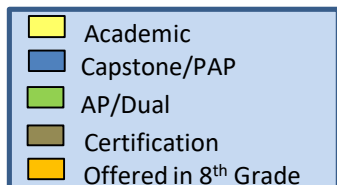
Practicum in Transportation Systems  
2 Credits  
Extended Practicum  
3 Credits  
ASE Certification

## Automotive – Diesel Equipment Technology

Automotive Technology I:  
Maintenance & Light Repair  
2 Credits  
ASE Certification

Diesel Equipment  
Technology I - Dual  
(TSTC)  
2 Credits  
ASE Certification

Diesel Equipment  
Technology II - Dual  
(TSTC)  
2 Credits  
ASE Certification



Transportation provided to and from TSTC during the school day.



# Business/Industry Endorsement

## Transportation: Diesel Equipment Technology

### Industry Certification Course Sequence 2021-2022



9 <sup>th</sup> Grade	SM1	SM2		11 <sup>th</sup> Grade	SM1	SM2	
Requirements				Requirements			
English I	✓	✓		English III	✓	✓	
Algebra	✓	✓		Algebra II	✓	✓	
Bio	✓	✓		3 <sup>rd</sup> Science	✓	✓	
Wld. Geo/ or Wld. History	✓	✓		Automotive Technology II Automotive Service	✓	✓	
LOTE Yr 1	✓	✓		Automotive Technology II Automotive Service	✓	✓	
P.E.	✓	✓		Diesel Equipment Tech I 8450WD	✓	✓	Diesel Equipment Tech I 84450XD
Automotive Basics	✓	✓		Diesel Equipment Tech I 8450WD	✓	✓	Diesel Equipment Tech I 84450XD
10 <sup>th</sup> Grade				12 <sup>th</sup> Grade			
Requirements				Requirements			
English II	✓	✓		English IV	✓	✓	
Geometry	✓	✓		4 <sup>th</sup> Math	✓	✓	
Chem/Phys/IPC	✓	✓		4 <sup>th</sup> Science	✓	✓	
US History	✓	✓		Government/Eco	✓	✓	
LOTE YR 2	✓	✓		Fine Art	✓	✓	
Automotive Technology I Automotive Service	✓	✓		Diesel Equipment Tech II 8460WD	✓	✓	Diesel Equipment Tech II 8460XD
Automotive Technology I Automotive Service	✓	✓		Diesel Equipment Tech II 8460WD	✓	✓	Diesel Equipment Tech II 8460XD

	Academic
	Capstone/PAP
	AP/Dual
	Certification
	Offered in 8 <sup>th</sup> Grade

# Business/Industry Endorsement Combination








A coherent sequence of (4) credits selected from the following:

CTE courses with final course from:  
Agriculture, Food & Natural Resources; Architecture & Construction; Business Management & Administration; Arts, Audio/Video Technology & Communications; Finance; Hospitality & Tourism; Information Technology; Manufacturing; Marketing; Transportation, Distribution & Logistics

Business & Industry: English

Business & Industry: Technology Applications

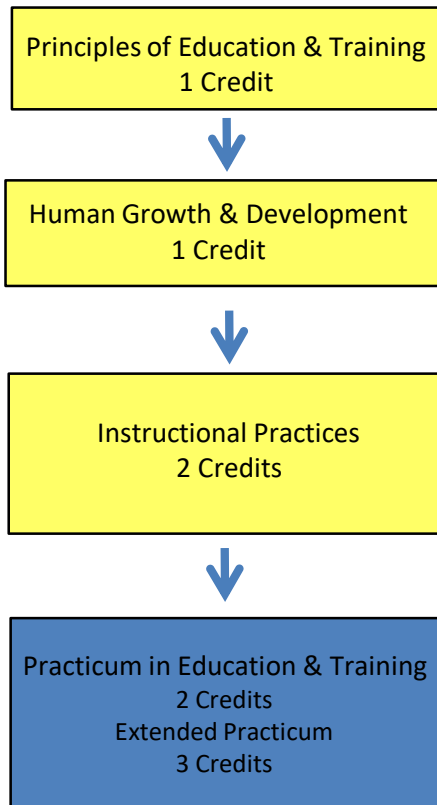
	Academic
	Capstone/PAP
	AP/Dual
	Certification
	Offered in 8 <sup>th</sup> Grade



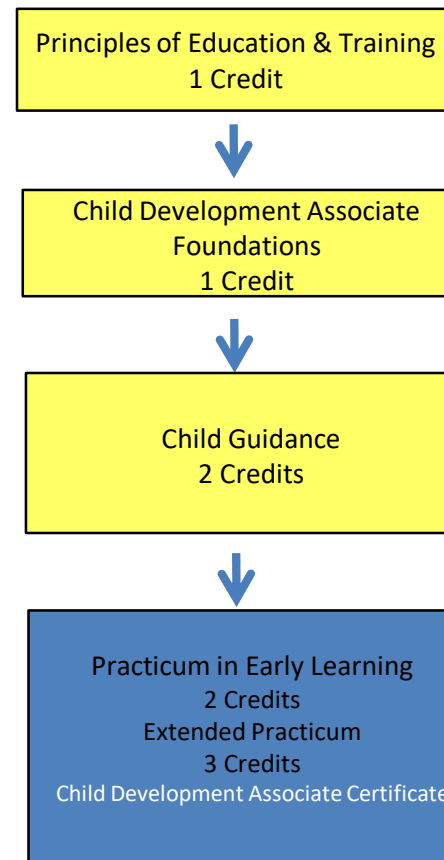
# Public Services Endorsement Education & Training 2021-2022

**PUBLIC  
SERVICES**

## Teaching & Training



## Early Learning

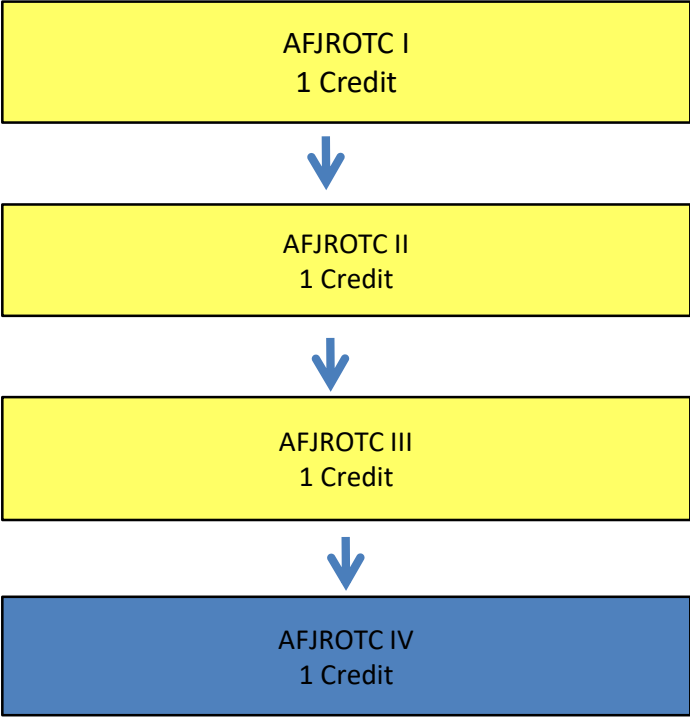







- Academic
- Capstone/PAP
- AP/Dual
- Certification
- Offered in 8<sup>th</sup> Grade

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# Public Services Endorsement Air Force Junior ROTC 2021-2022

**PUBLIC  
SERVICES**



	Academic
	Capstone/PAP
	AP/Dual
	Certification
	Offered in 8 <sup>th</sup> Grade

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# Public Service Endorsement Health Science 2021-2022

**PUBLIC  
SERVICES**

Additional Elective Course

Medical Microbiology  
1 Credit

Principles of Health Science  
1 Credit



Medical Terminology  
1 Credit



Health Science Theory  
1 Credit

OR

Health Science Clinical  
2 Credits  
CPR & ECG/EKG Certifications



Choose 4<sup>th</sup> "specialization" course; other than HS General, all "specialization" courses taught in a central location TBA

## Health Science General

Anatomy & Physiology  
1 Credit

OR

Practicum in HS: General  
2 Credits  
Extended Practicum  
3 Credits  
Certified Medical Assistant  
Certification

## Medical Billing & Coding

Medical Billing & Coding  
1 Credit  
Certified Billing & Coding  
Specialist Certification

## Pharmacy Technician

Pharmacology  
1 Credit  
Certified Pharmacy Technician  
Certification

## EMT

Practicum in Health Science –  
Dual WCJC:  
EMSP 1501E & EMSP 1160SP  
3 Credits  
Emergency Medical Technician –  
Basic Certification

## Certified Nursing Assistant

Practicum in HS: CNA  
2 Credits  
Certified Nurse  
Aide/Assistant Certification

## AND

Practicum in HS - Dual  
WCJC - EMSP 1291  
3 Credits  
AEMT - Advanced

- Academic
- Capstone/PAP
- AP/Dual
- Certification
- Offered in 8<sup>th</sup> Grade



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**LAMAR**CISD  
A PROUD TRADITION | A BRIGHT FUTURE





# Public Services Endorsement

## Law & Public Service: Law Enforcement 2021-2022

Additional Elective Courses

Court Systems & Practices  
1 Credit

Business Law  
1 Credit

Law Enforcement I  
1 Credit



Law Enforcement II  
1 Credit



Correctional Services  
1 Credit  
Basic Correctional Officer Certification  
Emergency Telecommunicator Certification



OR

Forensic Science  
1 Credit

Practicum in Law, Public Safety,  
Correction & Security  
2 Credits  
Extended Practicum  
3 Credits  
Emergency Telecommunicator  
Certification

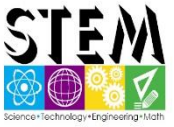
- Academic
- Capstone/PAP
- AP/Dual
- Certification
- Offered in 8<sup>th</sup> Grade



# STEM Endorsement\*

## Programming and Software Development - AP

### 2021-2022



Additional Elective Courses

Computer Science I  
1 Credit

Advanced Computer Science II  
1 Credit

Computer Science I PAP  
1 Credit

Computer Science Principles AP  
1 Credit

Computer Science A-AP  
2 Credits

IS: Technology Applications 1  
1 Credit

	Academic
	Capstone/PAP
	AP/Dual
	Certification
	Offered in 8 <sup>th</sup> Grade

**\*Algebra II, Chemistry & Physics required for all STEM Endorsements**

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# STEM Endorsement\*

## Programming and Software Development – Cyber Security 2021-2022



Principles of Information  
Technology  
1 Credit



Computer Maintenance Lab  
2 Credits  
CompTIA Certification



Practicum in Information  
Technology – Dual  
(1<sup>st</sup> time taken)  
Dual TSTC  
2 Credits



Practicum in Information  
Technology – Dual  
(2<sup>nd</sup> time taken)  
Dual TSTC  
2 Credits

Transportation  
provided to and  
from TSTC  
during the  
school day.



- Academic
- Capstone/PAP
- AP/Dual
- Certification
- Offered in 8<sup>th</sup> Grade

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# STEM Endorsement\*

## Program and Software Development – Cyber Security Dual



### Industry Certification Course Sequence 2021-2022

9 <sup>th</sup> Grade	SM1	SM2		11 <sup>th</sup> Grade	SM1	SM2	
<b>Requirements</b>				<b>Requirements</b>			
English I	✓	✓		English III	✓	✓	
Algebra	✓	✓		Algebra II	✓	✓	
Bio	✓	✓		3 <sup>rd</sup> Science	✓	✓	
Wld. Geo/ or Wld. History	✓	✓		Fine Art	✓	✓	
PE	✓	✓		Gov/Eco	✓	✓	
LOTE YR 1	✓	✓		Practicum in Information Technology - Dual 7946WD	✓	✓	Practicum in Information Technology - Dual 7946XD
Principles of Information Technology	✓	✓		Practicum in Information Technology - Dual 7946WD	✓	✓	Practicum in Information Technology - Dual 7946XD
<b>10<sup>th</sup> Grade</b>	<b>SM1</b>	<b>SM2</b>		<b>12<sup>th</sup> Grade</b>	<b>SM1</b>	<b>SM2</b>	
<b>Requirements</b>				<b>Requirements</b>			
English II	✓	✓		English IV	✓	✓	
Geometry	✓	✓		4 <sup>th</sup> Math	✓	✓	
Chem/Phys/IPC	✓	✓		4 <sup>th</sup> Science	✓	✓	
US History	✓	✓		Elective	✓	✓	
LOTE YR 2	✓	✓		Elective	✓	✓	
Computer Maintenance Lab	✓	✓		Practicum in Information Technology - Dual 7948WD	✓	✓	Practicum in Information Technology - Dual 7948XD
Computer Maintenance Lab	✓	✓		Practicum in Information Technology - Dual 7948WD	✓	✓	Practicum in Information Technology - Dual 7948XD

Transportation provided to and from TSTC during the school day.

- Academic
- Capstone/PAP
- AP/Dual
- Certification
- Offered in 8<sup>th</sup> Grade

# STEM Endorsement\*

## Mathematics

### 2021-2022



#### Additional Math Courses

AQR 1 Credit	ONRAMPS Pre-Calculus 1 Credit
Calculus AB AP 1 Credit	ONRAMPS Statistics 1 Credit
Calculus BC AP 1 Credit	Pre-Calculus PAP/Dual 1 Credit
College Preparatory Math 1 Credit	Statistics & Business Decision Making 1 Credit
Computer Science A AP 1 Credit	Statistics AP 1 Credit
Digital Electronics 1 Credit	
Independent Study Math Dual 1 Credit	

Algebra I  
1 Credit

Geometry  
1 Credit

Algebra II  
1 Credit

OR



OR



OR



AND

Algebra I PAP  
1 Credit

Geometry PAP  
1 Credit

Algebra II PAP  
1 Credit

Pre-Calculus  
1 Credit

Any Two Additional Math Courses  
1 Credit each

- Academic
- Capstone/PAP
- AP/Dual
- Certification
- Offered in 8<sup>th</sup> Grade

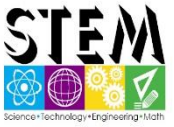
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# STEM Endorsement\*

## Science

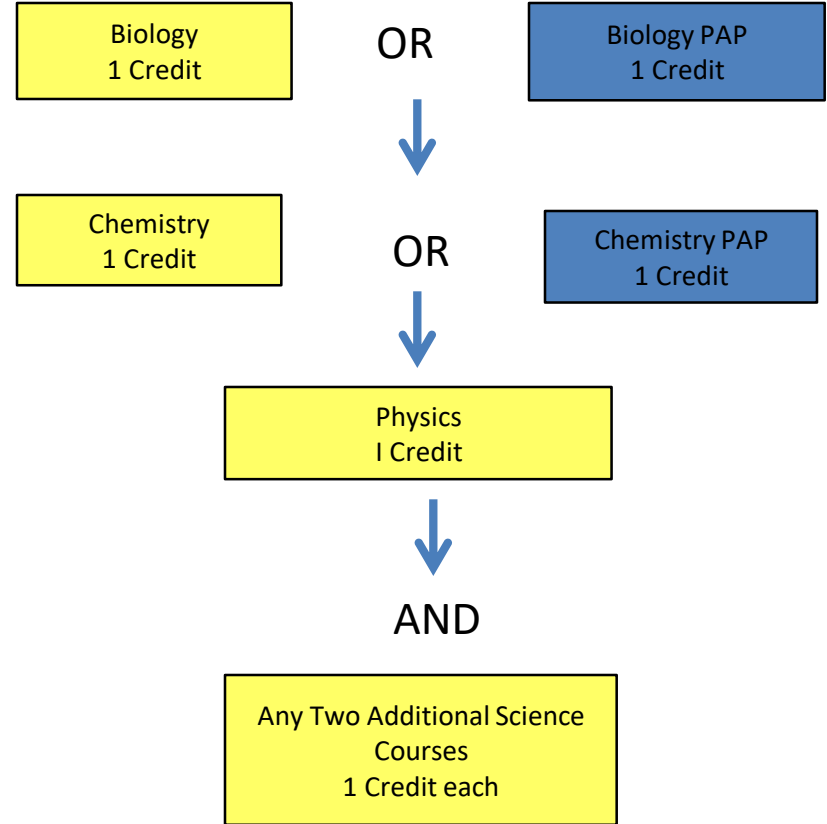
### 2021-2022



#### Additional Science Courses

Advanced Animal Science 1 Credit	Engineering Science 1 Credit
Advanced Plant & Soil Science 1 Credit	Engineering Design & Problem Solving 1 Credit
Anatomy & Physiology 1 Credit	Environmental Sci. AP 1 Credit
Aquatic Science 1 Credit	Environmental Systems 1 Credit
Astronomy 1 Credit	Environmental Sci. - Dual (Lone Star College) 1 Credit
Biology II AP 1 Credit	Food Science 1 Credit
Chemistry – Dual (ONRAMPS) 1 Credit	Forensic Science 1 Credit
Chemistry II AP 1 Credit	Medical Microbiology 1 Credit
Earth & Space Science 1 Credit	Physics I AP 1 Credit
	Physics C AP 1 Credit
	Physics – Dual (Lone Star College or ONRAMPS) 1 Credit
	Principles of Technology 1 Credit

	Academic
	Capstone/PAP
	AP/Dual
	Certification
	Offered in 8 <sup>th</sup> Grade



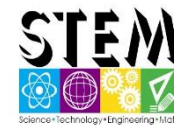
**\*Algebra II, Chemistry & Physics required for all STEM Endorsements**



# STEM Endorsement \*

## PLTW: Engineering

### 2021-2022



Additional Elective Courses

Principles of Applied Engineering  
1 Credit  
**\*\*Offered in 8<sup>th</sup> Grade Only\*\***

Introduction to Engineering Design  
1 Credit



Engineering Specialization Courses  
1 Credit

Civil Engineering & Architecture - THS, LCHS, GRHS  
Computer Integrated Manufacturing - FHS, CFHS

Aerospace Engineering - LCHS, THS  
Environmental Sustainability - GRHS, FHS, CFHS



Engineering Science  
1 Credit

OR



Digital Electronics  
1 Credit



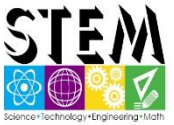
Engineering Design & Problem Solving - PLTW  
1 Credit

- Academic
- Capstone/PAP
- AP/Dual
- Certification
- Offered in 8<sup>th</sup> Grade

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# STEM Endorsement\* Combination



In addition to Algebra II, Chemistry and Physics a coherent sequence of three additional credits from no more than two of the following categories:

STEM Endorsement - PLTW

STEM Endorsement- Mathematics

STEM Endorsement- Science

STEM Endorsement- Computer Science

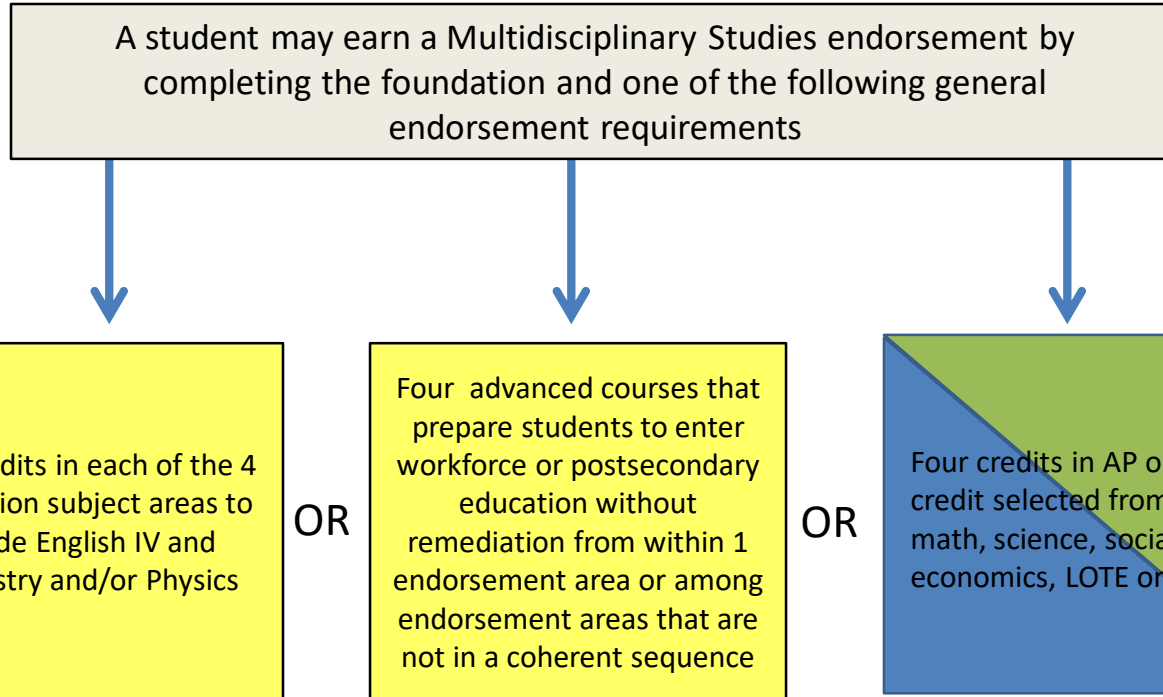
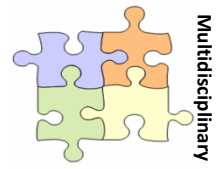
- Academic
- Capstone/PAP
- AP/Dual
- Certification
- Offered in 8<sup>th</sup> Grade

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# Multidisciplinary Studies Endorsement



- Academic
- Capstone/PAP
- AP/Dual
- Certification
- Offered in 8<sup>th</sup> Grade

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