

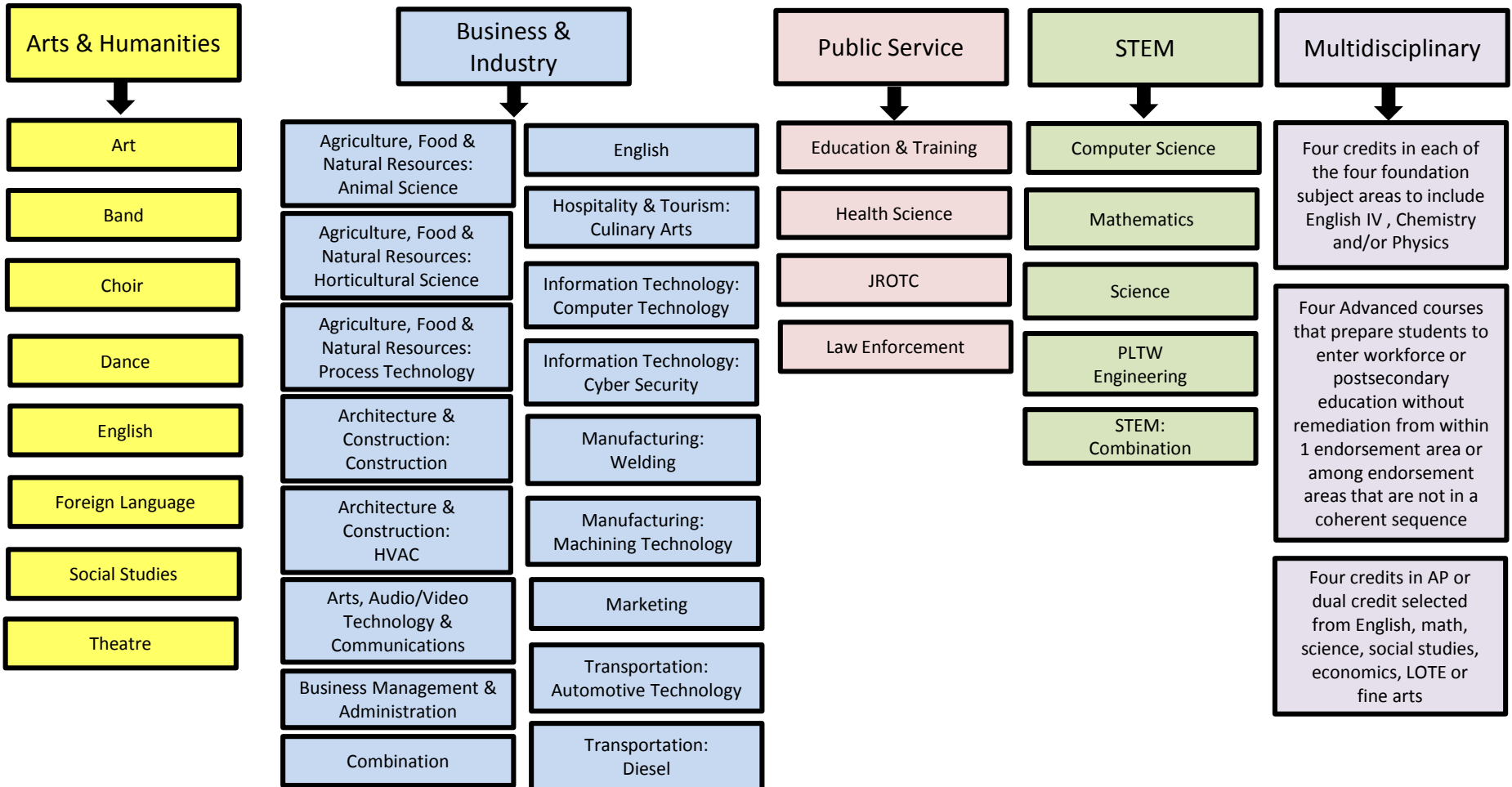
Multidisciplinary

# LCISD Career Cluster Offerings By Endorsement 2019-2020

**PUBLIC  
SERVICES**



**ARTS  
& humanities**

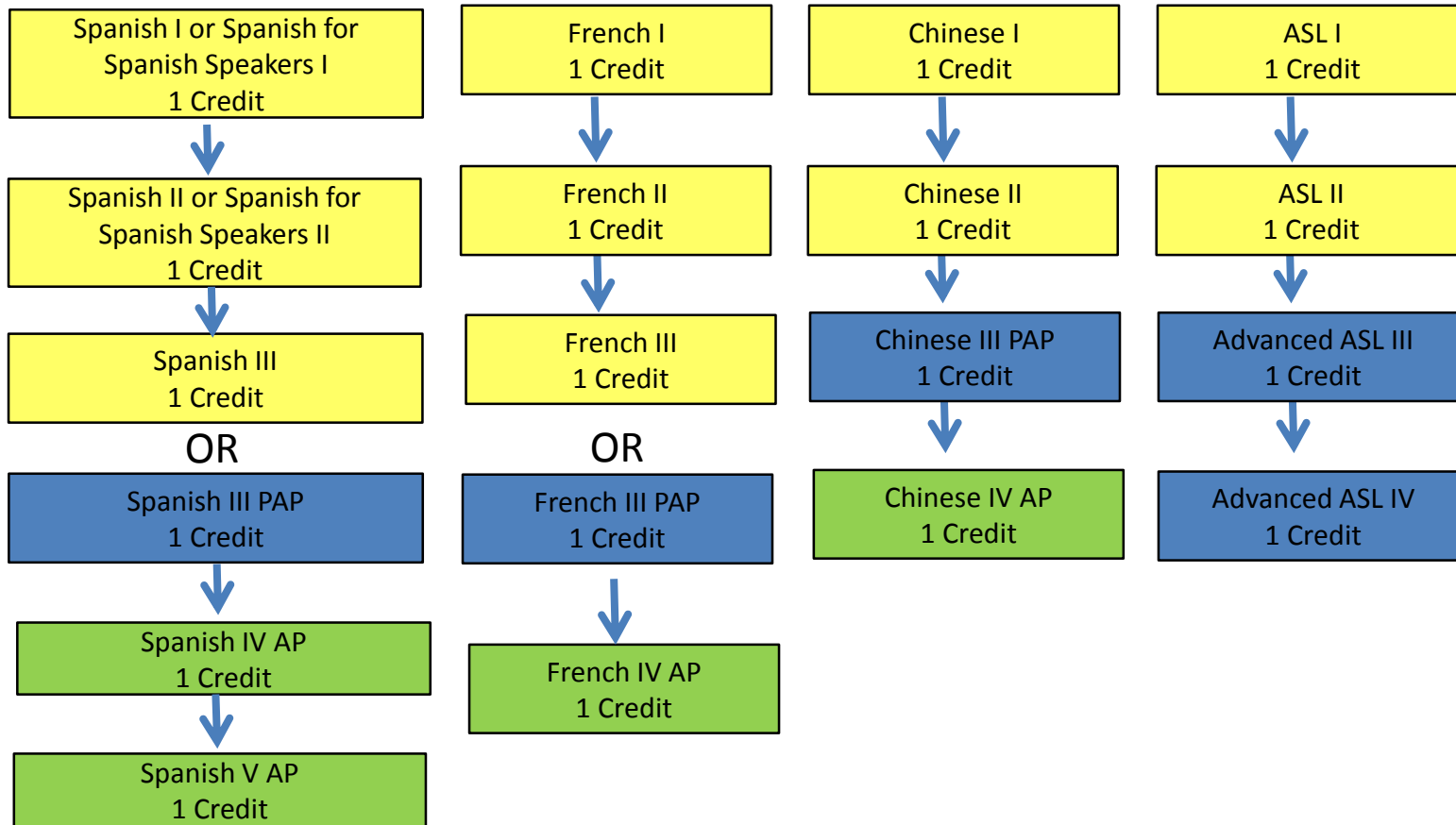


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# Arts & Humanities Endorsement

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

### 2019-2020



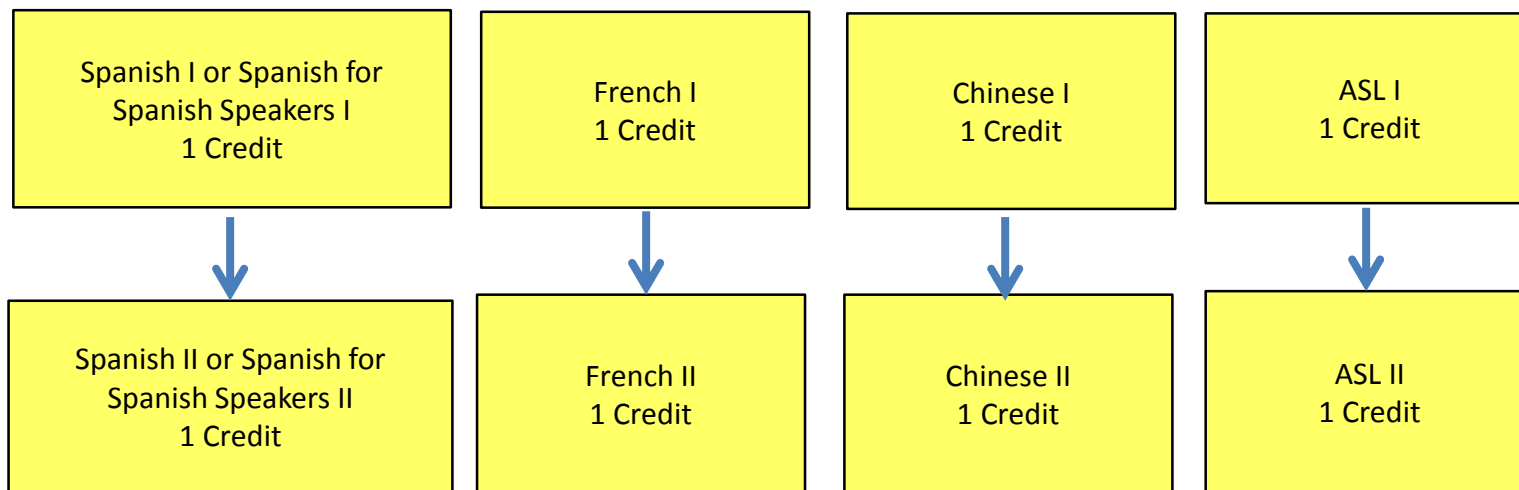
- Academic
- Advanced/PAP/Dual
- AP
- Certification
- Articulated Credit






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# Arts & Humanities Endorsement

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

### 2019-2020



	Academic
	Advanced/PAP/Dual
	AP
	Certification
	Articulated Credit

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# Arts & Humanities Endorsement



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

### 2019-2020

Additional  
Fine Arts  
Courses

Art History AP  
1 Credit

Music Theory  
AP  
1 Credit

Art I /or  
Art & Media  
Communication  
1 Credit

OR

ONRamps Art  
Entertainment  
Technologies-  
Dual  
1 Credit

Art II  
1 Credit

Art III  
1 Credit

OR

Art III PAP  
1 Credit

Art IV  
1 Credit

OR

Art IV AP  
1 Credit

Dance I  
1 Credit



Dance II  
1 Credit



Dance III  
1 Credit



Dance IV  
1 Credit

Music I and/or  
Music & Media  
Communications  
1 Credit



Music II  
1 Credit



Music III  
1 Credit



Music IV  
1 Credit

Theatre I and/or  
Theater and  
Media  
Communications  
1 Credit

OR

Theatre & Media  
Communications/  
Theater & Media  
Communications  
Dual  
.5/.5 Credit



Theatre II and/or  
Theater and  
Media  
Communications II  
1 Credit



Theatre III  
1 Credit



Theatre IV  
1 Credit

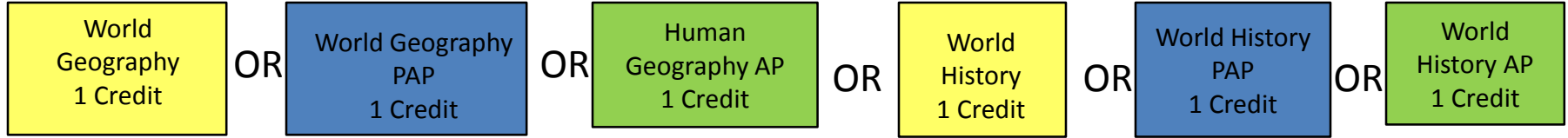
- Academic
- Advanced/PAP/Dual
- AP
- Certification
- Articulated Credit

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# Arts & Humanities Endorsement : Social Studies

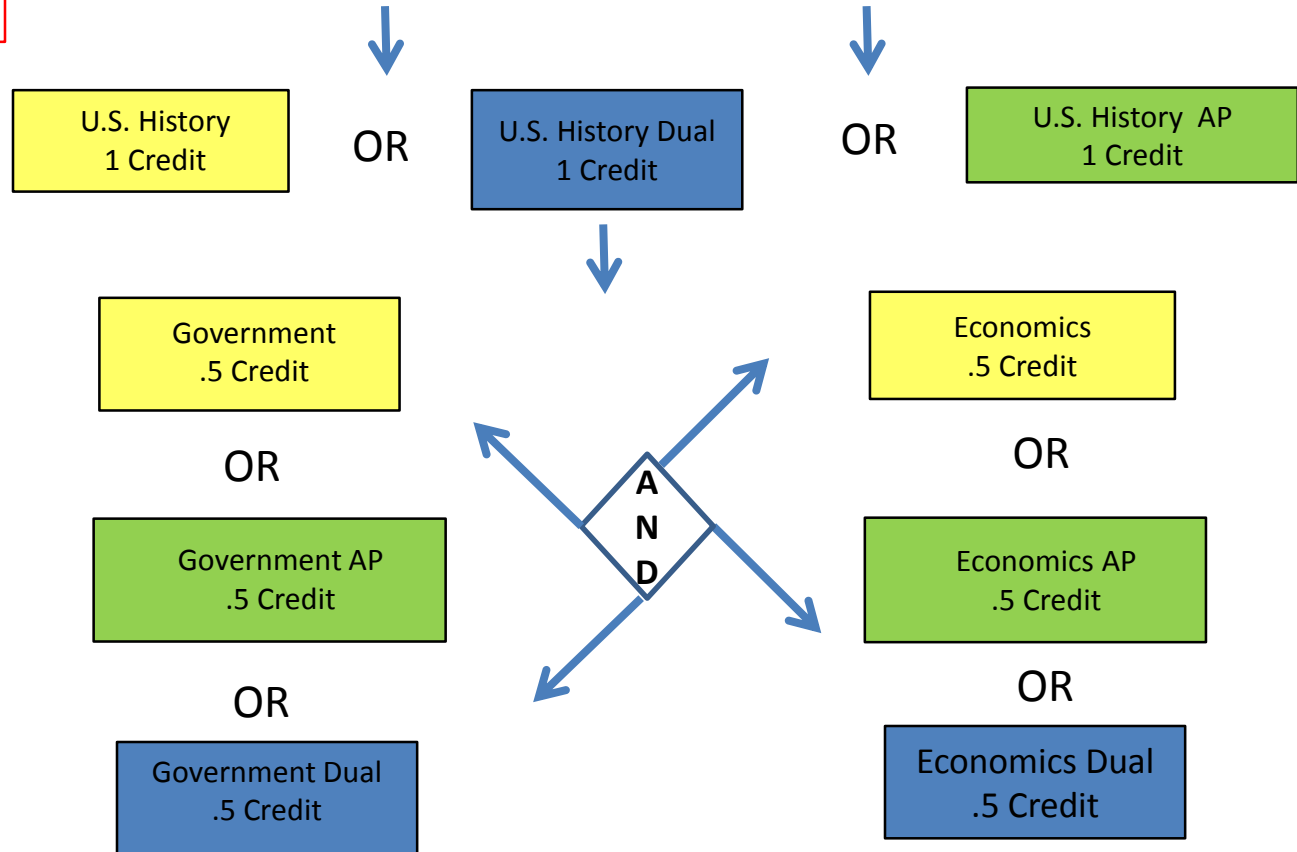
## 5 credits in Social Studies

### 2019-2020



Additional Social Studies Courses

- Psychology .5 Credit
- Psychology PAP .5 Credit
- Psychology -Dual .5 Credit
- Psychology AP .5 Credit
- Sociology .5 Credit
- Personal Financial Literacy .5 Credit
- European History AP 1 Credit

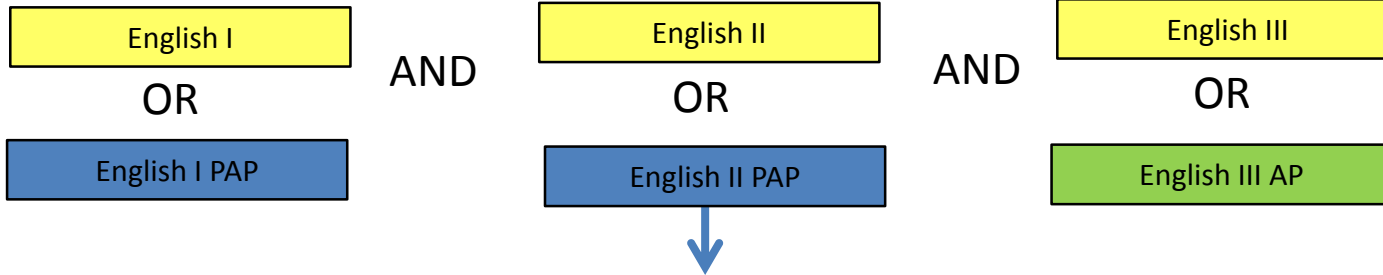


- Academic
- Advanced/PAP/Dual
- AP
- Certification
- Articulated Credit

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# Arts & Humanities Endorsement : English

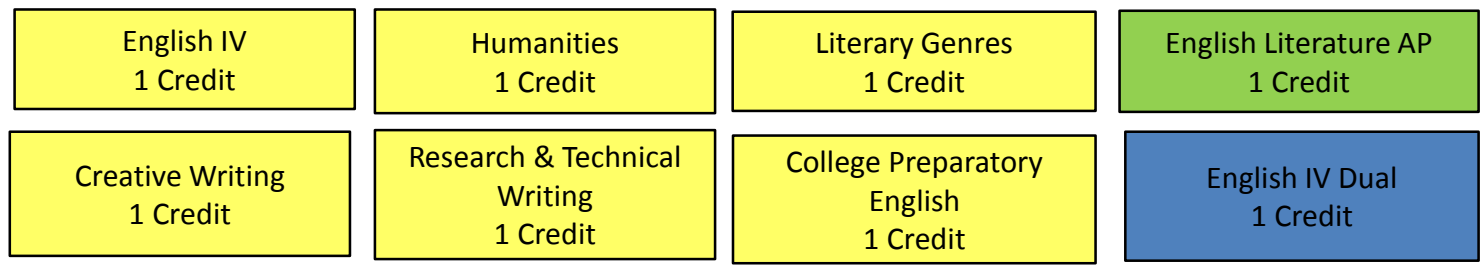
## 7 credits in English 2019-2020



(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
	Advanced/PAP/Dual
	AP
	Certification
	Articulated Credit

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# Business/Industry Endorsement: English

## (4) English elective credits

### 2019-2020



(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
- Advanced/PAP/Dual
- AP
- Certification
- Articulated Credit

# Business/Industry Endorsement

## Agriculture, Food, & Natural Resources: Animal Science

### 2019-2020



Additional Elective Courses

Agricultural Mechanics & Metal Technologies  
1 Credit

Agribusiness Management & Marketing  
1 Credit

Livestock Production  
1 Credit

8<sup>th</sup> – 12<sup>th</sup>

Principles of Agriculture, Food & Natural Resources  
1 Credit

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 Certification

9<sup>th</sup> – 12<sup>th</sup>

Principles of Agriculture, Food & Natural Resources  
1 Credit

Small Animal Management  
.5 Credit

AND

Equine Science  
.5 Credit

Veterinary Medical Applications  
1 Credit

↓

OR

Advanced Animal Science  
1 Credit

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

- Academic
- Advanced/PAP/Dual
- AP
- Certification
- Articulated Credit

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# Business/Industry Endorsement

## Agriculture, Food, & Natural Resources: Horticulture

### 2019-2020



8<sup>th</sup> – 12<sup>th</sup>

9<sup>th</sup> – 12<sup>th</sup>

Additional Elective Courses

Agricultural Mechanics & Metal Technologies  
1 Credit

Agribusiness Management & Marketing  
1 Credit

Agricultural Structures Design & Fabrication  
1 Credit

Principles of Agriculture, Food & Natural Resources  
1 Credit

Principles of Agriculture, Food & Natural Resources  
1 Credit

Floral Design  
1 Credit  
Texas State Floral Association Certification

Floral Design  
1 Credit  
Texas State Floral Association Certification

Horticultural Science  
1 Credit

Horticultural Science  
1 Credit

Landscape Design & Management  
.5 Credit

AND

Turf Grass Management  
.5 Credit

Landscape Design & Management  
.5 Credit

AND

Turf Grass Management  
.5 Credit

AND/OR

AND/OR

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

Advanced Plant & Soil Science  
1 Credit  
Wastewater Collections and Water Operation Certification

- Academic
- Advanced/PAP/Dual
- AP
- Certification
- Articulated Credit

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# Business/Industry Endorsement

## Agriculture, Food, & Natural Resources: Process Technology\*

### 2019-2020



8<sup>th</sup> – 12<sup>th</sup>

9<sup>th</sup> – 12<sup>th</sup>

Additional Elective Courses

Agricultural Structures Design & Fabrication Technologies  
1 Credit

Agribusiness Management & Marketing  
1 Credit

Welding II  
2 Credits  
AWS Certification

Principles of Technology  
1 Credit

Principles of Agriculture, Food & Natural Resources  
1 Credit

Agricultural Mechanics & Metal Technologies  
1 Credit

Agricultural Structures & Design Fabrication  
1 Credit

Welding I  
2 Credits  
AWS Certification

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

Principles of Agriculture, Food & Natural Resources  
1 Credit

Agricultural Mechanics & Metal Technologies  
1 Credit

Welding I  
2 Credits  
AWS Certification

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

Transportation provided to and from WCJC during the school day.



AND

- Academic
- Advanced/PAP/Dual
- AP
- Certification
- Articulated Credit

### \* Principles of Technology required for Process Technology Pathway

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# Business/Industry Endorsement Manufacturing: Machining Technology 2019-2020



Principles of Agriculture, Food &  
Natural Resources  
1 Credit



Agriculture Mechanics &  
Metal Technologies  
1 Credit








Precision Metal Manufacturing I  
Dual (TSTC)  
2 Credits



Precision Metal Manufacturing II  
Dual (TSTC)  
2 Credits



Transportation  
provided to and  
from TSTC  
during the  
school day.

-  Academic
-  Advanced/PAP/Dual
-  AP
-  Certification
-  Articulated Credit

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# Business/Industry Endorsement Manufacturing: Machining Technology

## Industry Certification Course Sequence 2019-2020



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	✓	✓	Gov/Eco	✓	✓
PE	✓	✓	Elective	✓	✓
LOTE YR 1	✓	✓	Precision Metal Manufacturing I 7184AD	✓	✓
Principles of Agriculture, Food & Natural Resources	✓	✓	Precision Metal Manufacturing I 7184AD	✓	✓
<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 7186AD	✓	✓
Agriculture Mechanic & Metal Technologies	✓	✓	Precision Metal Manufacturing II 7186AD	✓	✓

Transportation provided to and from TSTC during the school day.

- Academic
- Advanced/PAP/Dual
- AP
- Certification
- Articulated Credit

# Business/Industry Endorsement Manufacturing: Welding 2019-2020



8<sup>th</sup> – 12<sup>th</sup>

9<sup>th</sup> – 12<sup>th</sup>

Additional Elective Courses

Agribusiness Management & Marketing  
1 Credit

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 Agriculture, Food & Natural Resources  
1 Credit

Principles of Agriculture, Food & Natural Resources  
1 Credit

Agricultural Mechanics & Metal Technologies  
1 Credit

Agricultural Mechanics & Metal Technologies  
1 Credit

Agricultural Structures Design & Fabrication  
1 Credit

Welding I  
2 Credits  
AWS Certification

Welding I  
Dual (TSTC)  
2 Credits

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

Welding II  
2 Credits  
AWS Certification

OR

Welding II  
Dual (TSTC)  
2 Credits

- Academic
- Advanced/PAP/Dual
- AP
- Certification
- Articulated Credit



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# Business/Industry Endorsement Manufacturing: Welding

## Industry Certification Course Sequence 2019-2020



### 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 7181AD	✓	✓
Principles of Agriculture, Food & Natural Resources	✓	✓	Welding I Dual 7181AD	✓	✓
<b>10<sup>th</sup> Grade</b>	<b>SM1</b>	<b>SM2</b>	<b>12<sup>th</sup> Grade</b>	<b>SM 1</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	✓	✓
Fine Art	✓	✓	Elective	✓	✓
LOTE YR 2	✓	✓	Welding II Dual 7183AD	✓	✓
Agriculture Mechanics & Metal Technologies	✓	✓	Welding II Dual 7183AD	✓	✓

Transportation provided to and from TSTC during the school day.

- Academic
- Advanced/PAP/Dual
- AP
- Certification
- Articulated Credit

# Business/Industry Endorsement: Architecture & Construction: Construction 2019-2020



Additional  
Elective Courses

Interior Design I  
1 Credit

Interior Design II  
1 Credit  
Chief Architect Certification

Practicum in Interior  
Design  
2 Credits  
Chief Architect  
Certification

Principles of Construction  
1 Credit

OR

Principles of Architecture  
1 Credit

Construction Technology I  
2 Credits  
OSHA Certification  
NCCER Certification

Construction Technology II  
2 Credits  
NCCER Certification

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

- Academic
- Advanced/PAP/Dual
- AP
- Certification
- Articulated Credit

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# Business/Industry Endorsement: Architecture & Construction: Heating, Ventilation & Construction (HVAC) 2019-2020



Principles of Construction  
1 Credit



Construction Technology I  
2 Credits



Heating, Ventilation, Air Conditioning  
& Refrigeration Technology I-Dual  
TSTC  
1 Credit  
HVAC Technician Certification I



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

Transportation provided to and from TSTC during the school day.

- Academic
- Advanced/PAP/Dual
- AP
- Certification
- Articulated Credit



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# Business/Industry Endorsement

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



### Industry Certification Course Sequence 2019-2020

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 7250AD	✓	✓
					HVAC Technology I 7250BD
10 <sup>th</sup> Grade			12 <sup>th</sup> Grade		
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 7260AD	✓	✓
Construction Technology I	✓	✓	HVAC Technology II 7260AD	✓	✓
					HVAC Technology II 7260BD
					HVAC Technology II 7260BD

Transportation provided to and from TSTC during the school day.

- Academic
- Advanced/PAP/Dual
- AP
- Certification
- Articulated Credit

# Business/Industry Endorsement: Arts, Audio/Video Technology & Communications 2019-2020



Additional Elective  
Course

Professional  
Communications  
.5 Credit

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

Graphic Design  
& Illustration I  
1 Credit

Audio/Video  
Production I  
1 Credit

Graphic Design &  
Illustration II-Lab  
2 Credits  
Photoshop & Illustrator Certificate

Audio/Video Production  
II-Lab  
2 Credits  
Premiere Pro Certification

Practicum Graphic Design  
& illustration  
2 Credits  
Extended Practicum  
3 credits  
Photoshop & Illustrator Certificate

Practicum in Audio/  
Video Production  
2 Credits  
Extended Practicum  
3 credits  
Premiere Pro Certification

- Academic
- Advanced/PAP/Dual
- AP
- Certification
- Articulated Credit

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# Business/Industry Endorsement Business Management & Administration 2019-2020



8<sup>th</sup> – 12<sup>th</sup>

Principles of Business, Marketing & Finance  
1 Credit

Money Matters  
1 Credit

Business Information Management I  
1 Credit  
MOS Certification

Business Information Management II  
1 Credit  
MOS Certification

Business Law  
1 Credit

OR

Practicum in Business Management  
2 Credits  
Extended Practicum  
3 Credits

9<sup>th</sup> – 12<sup>th</sup>

Money Matters  
1 Credit

Business Information Management I  
1 Credit  
MOS Certification

Business Information Management II  
1 Credit  
MOS Certification

Business Law  
1 Credit

OR

Practicum in Business Management  
2 Credits  
Extended Practicum  
3 Credits

Additional Elective Course

Accounting I  
1 Credit

Accounting II  
1 Credit  
Quick Books

Statistics & Business Decision Making  
1 Credit

Business English  
1 Credit

- Academic
- Advanced/PAP/Dual
- AP
- Certification
- Articulated Credit

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# Business/Industry Endorsement Hospitality & Tourism: Culinary Arts 2019-2020



Additional Elective Course

Food Science  
1 Credit

8<sup>th</sup> - 12<sup>th</sup>

Principles of Hospitality & Tourism  
1 Credit

Introduction to Culinary Arts  
1 Credit

Culinary Arts  
2 Credits  
Food Handler Certification

Advanced Culinary Arts  
2 Credits  
Food Handler Certification & ServSafe Manager Certification

9<sup>th</sup> - 12<sup>th</sup>

Introduction to Culinary Arts  
1 Credit

Culinary Arts  
2 Credits  
Food Handler Certification

Advanced Culinary Arts  
2 Credits  
Food Handler Certification & ServSafe Manager Certification

Practicum in Culinary Arts  
2 Credits  
Extended Practicum  
3 Credits  
ServSafe Manager Certification

- Academic
- Advanced/PAP/Dual
- AP
- Certification
- Articulated Credit

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# Business/Industry Endorsement: Information Technology: Computer Technology 2019-2020



Additional Elective Course

Digital Media  
1 Credit  
Adobe Photoshop  
Certification

Principles of Information  
Technology  
1 Credit



Computer Maintenance Lab  
2 Credits  
A+ Certification

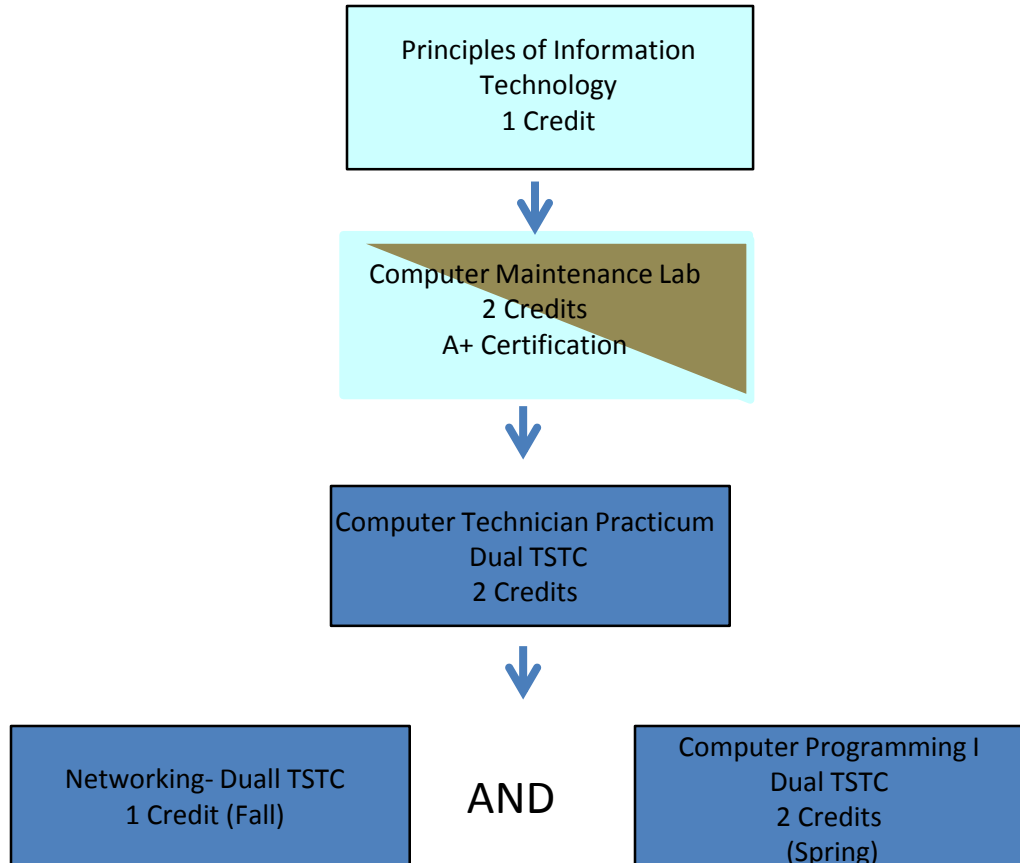


Computer Technician Practicum  
2 Credits  
Extended Practicum  
3 Credits  
A+ Certification

- Academic
- Advanced/PAP/Dual
- AP
- Certification
- Articulated Credit

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# Business/Industry Endorsement: Information Technology: Cyber Security 2019-2020



Transportation provided to and from TSTC during the school day.

	Academic
	Advanced/PAP/Dual
	AP
	Certification
	Articulated Credit

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# Business/Industry Endorsement Information Technology: Cyber Security



## Industry Certification Course Sequence 2019-2020

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	✓	✓		Gov/Eco	✓	✓	
LOTE YR 1	✓	✓		Computer Technician Practicum - Dual 7940AD	✓	✓	Computer Technician Practicum - Dual 7940BD
Principles of Information Technology	✓	✓		Computer Technician Practicum -Dual 7940AD	✓	✓	Computer Technician Practicum -Dual 7940BD
<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	✓	✓	
Computer Maintenance Lab	✓	✓		Elective	✓	✓	Computer Programming I - Dual 7942BD
Computer Maintenance Lab	✓	✓		Networking - Dual 7931AD	✓	✓	Computer Programming I - Dual 7942BD

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- Academic
- Advanced/PAP/Dual
- AP
- Certification
- Articulated Credit

# Business/Industry Endorsement Marketing 2019-2020



Additional Elective  
Course

Sports & Entertainment Marketing  
.5 Credit

AND

Advertising  
.5 Credit

Digital Media  
1 Credit  
Adobe Photoshop Certification

Entrepreneurship  
1 Credit

Advanced Marketing  
2 Credits

AND/ OR

Practicum in Marketing  
2 Credits  
Extended Practicum  
3 Credits  
Career Safe Certification

Practicum in Marketing  
2 Credits  
Extended Practicum  
3 Credits  
Career Safe Certification

- Academic
- Advanced/PAP/Dual
- AP
- Certification
- Articulated Credit

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# Business/Industry Endorsement

## Transportation, Distribution & Logistics: Automotive Technology – Diesel DUAL 2019-2020



Energy & Power of  
Transportation Systems  
1 Credit



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

OR

Automotive Technology I:  
Maintenance & Light Repair  
Dual TSTC (onsite at LCHS)  
2 Credits  
ASE Certification



OR

Automotive Technology II:  
Automotive Service  
2 Credits  
ASE Certification

AND/OR

Diesel Equipment  
Technology I Dual  
TSTC  
2 Credits  
ASE Certification

Transportation  
provided to and  
from TSTC  
during the  
school day.



Diesel Equipment  
Technology II  
Dual  
TSTC  
2 Credits  
ASE Certification

Automotive Technology II:  
Automotive Service  
Dual (TSTC) (onsite at LCHS)  
2 Credits  
ASE Certification

	Academic
	Advanced/PAP/Dual
	AP
	Certification
	Articulated Credit

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# Business/Industry Endorsement

## Transportation: Diesel Equipment Technology

### Industry Certification Course Sequence 2019-2020

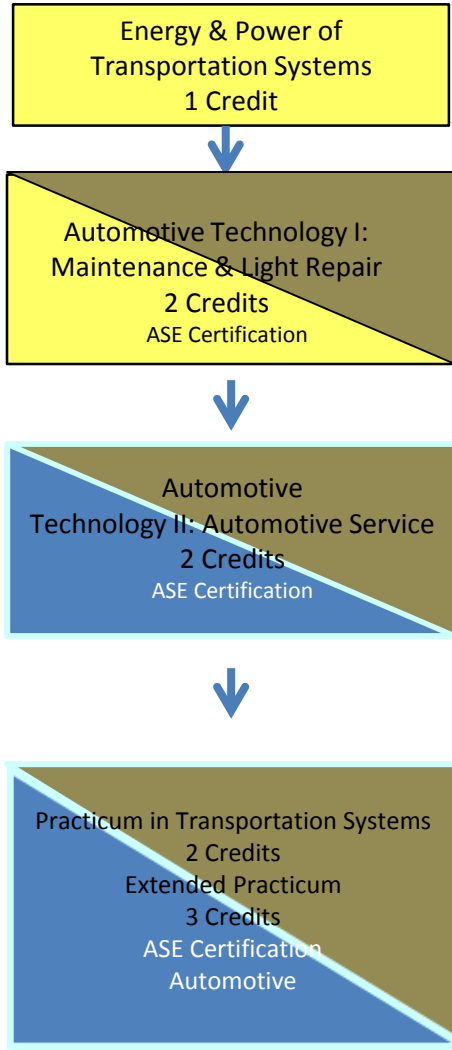


9 <sup>th</sup> Grade	SM1	SM2	11 <sup>th</sup> Grade	SM1	SM2	
<b>Requirements</b>			<b>Requirements</b>			
English I	✓	✓	English III	✓	✓	
Algebra	✓	✓	Algebra II	✓	✓	
Bio	✓	✓	3 <sup>rd</sup> Science	✓	✓	
Wld. Geo/ or Wld. History	✓	✓	Automotive Technology II Automotive Service	✓	✓	
LOTE Yr 1	✓	✓	Automotive Technology II Automotive Service	✓	✓	
P.E.	✓	✓	Diesel Equipment Tech I 8450AD	✓	✓	Diesel Equipment Tech I 84450BD
Energy & Power of Transportation Systems	✓	✓	Diesel Equipment Tech I 8450AD	✓	✓	Diesel Equipment Tech I 84450BD
<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	✓	✓	Government/Eco	✓	✓	
LOTE YR 2	✓	✓	Fine Art	✓	✓	
Automotive Technology I Automotive Service	✓	✓	Diesel Equipment Tech II 8460AD	✓	✓	Diesel Equipment Tech II 8460BD
Automotive Technology I Automotive Service	✓	✓	Diesel Equipment Tech II 8460bD	✓	✓	Diesel Equipment Tech II 8460BD

	Academic
	Advanced/PAP/Dual
	AP
	Certification
	Articulated Credit

# Business/Industry Endorsement

## Transportation, Distribution & Logistics: Automotive Technology 2019-2020



	Academic
	Advanced/PAP/Dual
	AP
	Certification
	Articulated Credit

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# 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
- Advanced/PAP/Dual
- AP
- Certification
- Articulated Credit

# Public Services Endorsement: Education & Training 2019-2020

Additional Elective Course

Lifetime Nutrition & Wellness  
.5 Credit

Principles of Education & Training  
1 Credit



Human Growth & Development  
1 Credit



Child Guidance  
2 Credits

OR

Instructional Practices  
2 Credits



Practicum in Human Services  
2 Credits

OR

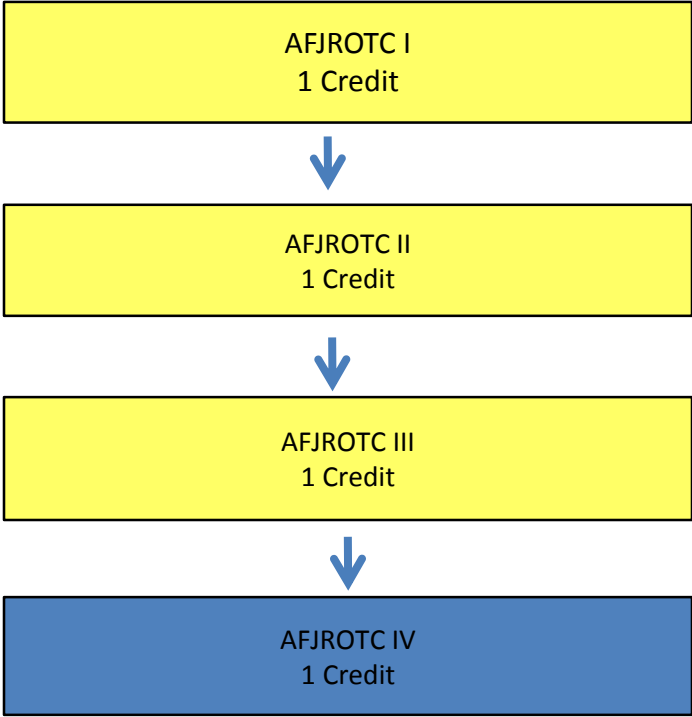
Practicum in Education &  
Training  
2 Credits

- Academic
- Advanced/PAP/Dual
- AP
- Certification
- Articulated Credit

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# Public Services Endorsement Air Force Junior ROTC 2019-2020

**PUBLIC  
SERVICES**



- Academic
- Advanced/PAP/Dual
- AP
- Certification
- Articulated Credit

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# Public Service Endorsement Health Science 2019-2020

**PUBLIC  
SERVICES**

Additional Elective Course

Medical Microbiology  
1 Credit

Principles of Health Science  
1 Credit

Medical Terminology  
1 Credit

Health Science Theory  
1 Credit  
CPR Certification

OR

Health Science Clinical  
2 Credits  
CPR & EKG Certification

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

## HS General

Anatomy & Physiology  
1 Credit

OR

Practicum in HS: General  
2 Credits  
Extended Practicum  
3 Credits  
CMA Certification

## Medical Billing & Coding

Medical Billing & Coding  
1 Credit  
Medical Billing & Coding  
Specialists Certification

## Pharmacy Technician

Pharmacology  
1 Credit  
Pharmacy Technician Certification  
Board Exam

## EMT

Practicum in HS-Dual  
WCJC:  
EMSP 1501F & EMSP 1160Sp  
3 Credits  
EMT - Basic

## Certified Nursing Assistant

Practicum in HS:  
CNA  
2 Credits  
CNA Certification

## AND

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

- Academic
- Advanced/PAP/Dual
- AP
- Certification
- Articulated Credit



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# Public Services Endorsement Law Enforcement 2019-2020

**PUBLIC  
SERVICES**

Law Enforcement I  
1 Credit



Law Enforcement II  
1 Credit



Court Systems & Practices  
1 Credit



Correctional Services  
1 Credit  
Basic Correctional Officer Certification  
National Emergency Communications 911 Certification

OR

Forensic Science  
1 Credit

OR

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

- Academic
- Advanced/PAP/Dual
- AP
- Certification
- Articulated Credit

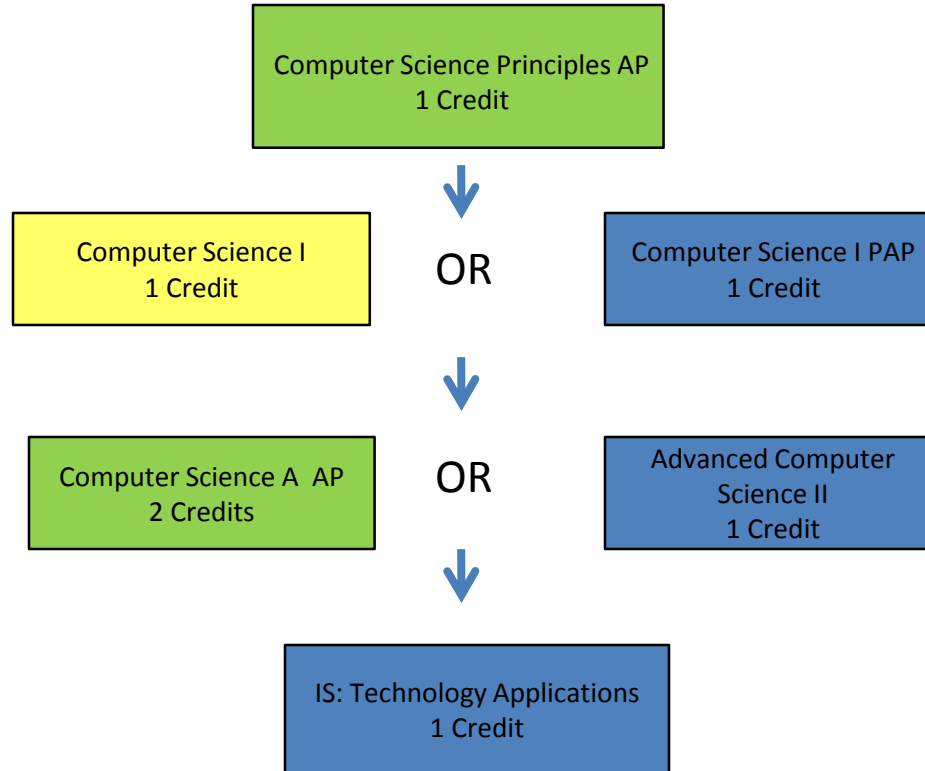
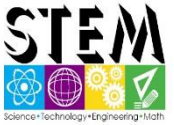
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# STEM Endorsement\*

## Computer Science

### 2019-2020



- Academic
- Advanced/PAP/Dual
- AP
- Certification
- Articulated Credit

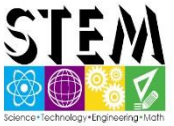
**\*Algebra II, Chemistry & Physics required for all STEM Endorsements**

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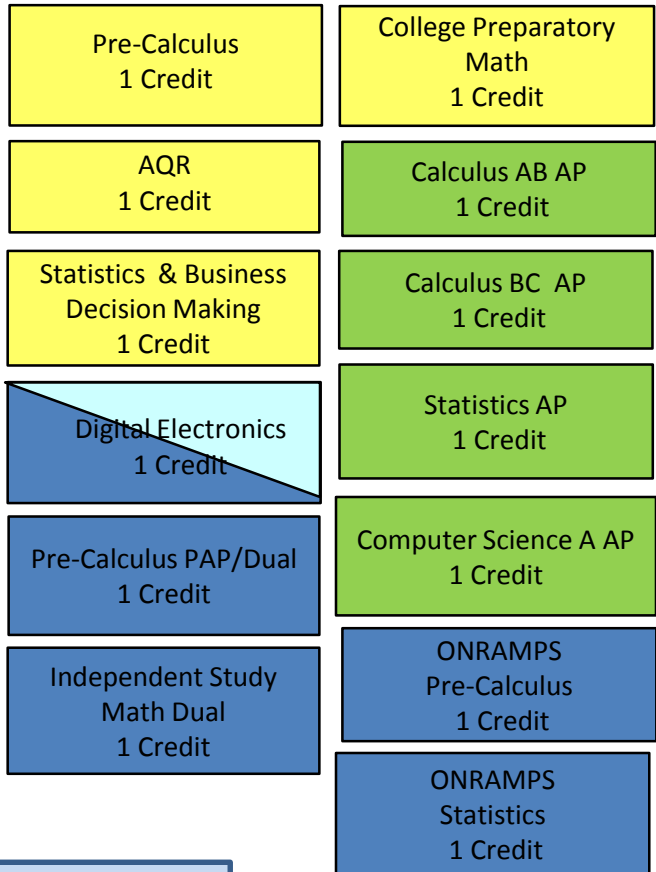
# STEM Endorsement\*

## Mathematics

### 2019-2020



#### Additional Math Courses



Algebra I  
1 Credit

OR

Algebra I PAP  
1 Credit



Geometry  
1 Credit

OR

Geometry PAP  
1 Credit



Algebra II  
1 Credit

OR

Algebra II PAP  
1 Credit



AND

Any Two Additional Math Courses  
1 Credit each

- Academic
- Advanced/PAP/Dual
- AP
- Certification
- Articulated Credit

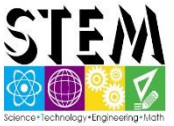
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# STEM Endorsement\*

## Science

### 2019-2020



Additional Science Courses

Advanced Animal Science 1 Credit	Engineering Design & Problem Solving 1 Credit
Astronomy 1 Credit	Forensic Science 1 Credit
Aquatic Science 1 Credit	Physics II Dual 1 Credit
Earth & Space Science 1 Credit	Advanced Plant & Soil Science 1 Credit
Food Science 1 Credit	Chemistry II AP 1 Credit
Medical Microbiology 1 Credit	Environmental Sci. AP 1 Credit
Anatomy & Physiology 1 Credit	Physics C AP 1 Credit
Engineering Science 1 Credit	Biology II AP 1 Credit

Biology  
1 Credit

Chemistry  
1 Credit

Physics  
1 Credit

OR



OR



OR



AND

Any Two Additional Science Courses  
1 Credit each

Biology PAP  
1 Credit

Chemistry PAP  
1 Credit

Physics PAP  
1 Credit

- Academic
- Advanced/PAP/Dual
- AP
- Certification
- Articulated Credit

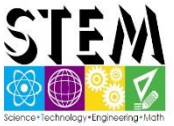
**\*Algebra II, Chemistry & Physics required for all STEM Endorsements**

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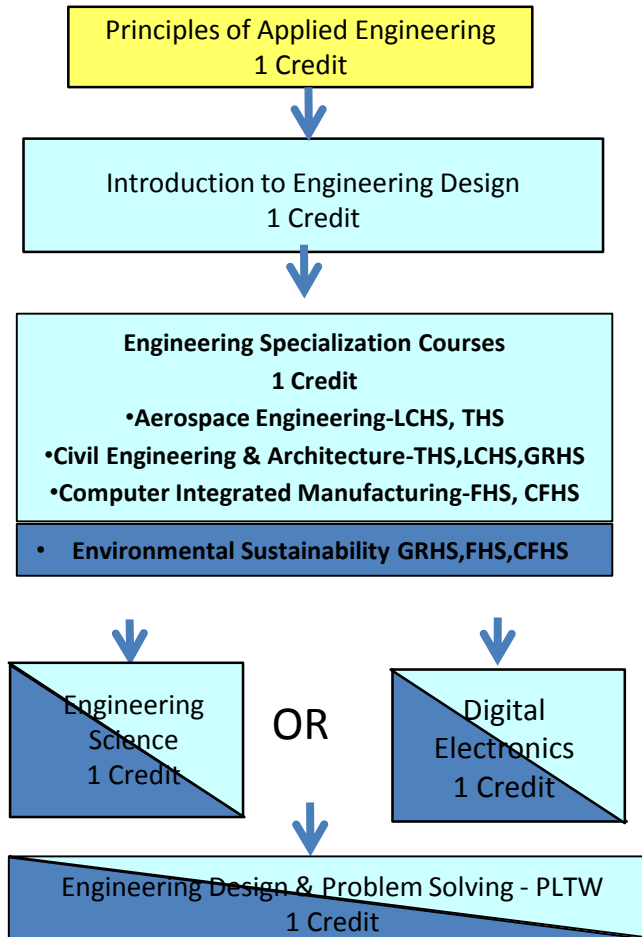
# STEM Endorsement \*

## PLTW: Engineering

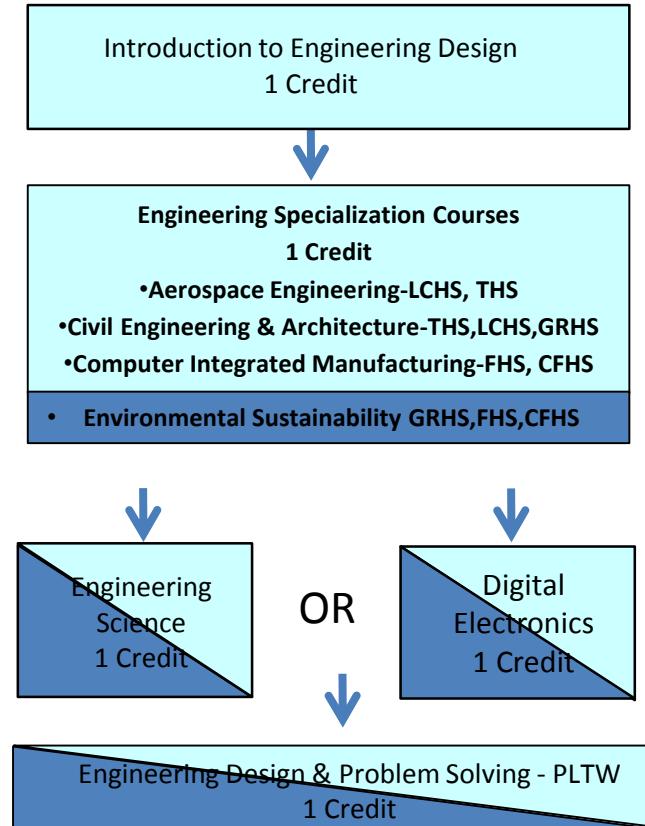
### 2019-2020



8<sup>th</sup> - 12<sup>th</sup> Grade



9<sup>th</sup> - 12<sup>th</sup> Grade

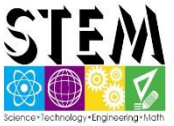


	Academic
	Advanced/PAP/Dual
	AP
	Certification
	Articulated Credit

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

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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

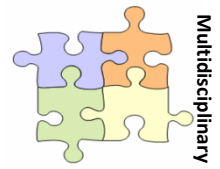
STEM Endorsement- Computer Science

- Academic
- Advanced/PAP/Dual
- AP
- Certification
- Articulated Credit

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

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# Multidisciplinary Studies Endorsement



A student may earn a Multidisciplinary Studies endorsement by completing the foundation and one of the following general endorsement requirements



Four credits in each of the 4 foundation subject areas to include English IV and Chemistry and/or Physics

OR



Four advanced courses that prepare students to enter workforce or postsecondary education without remediation from within 1 endorsement area or among endorsement areas that are not in a coherent sequence

OR



Four credits in AP or dual credit selected from English, math, science, social studies, economics, LOTE or fine arts

- Academic
- Advanced/PAP/Dual
- AP
- Certification
- Articulated Credit