

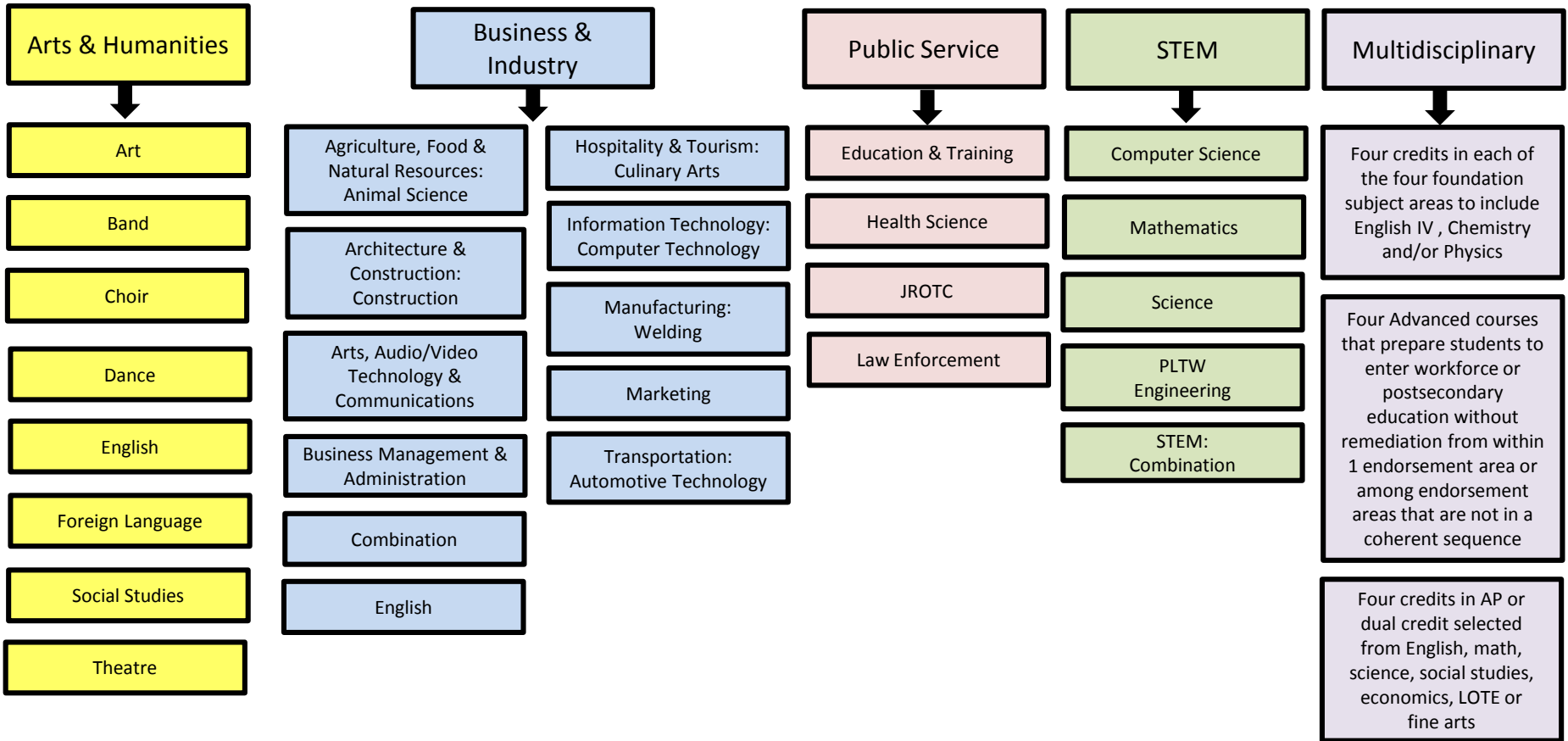
Multidisciplinary

LCISD Career Cluster Offerings By Endorsement 2017-2018

**PUBLIC
SERVICES**



**ARTS
& humanities**

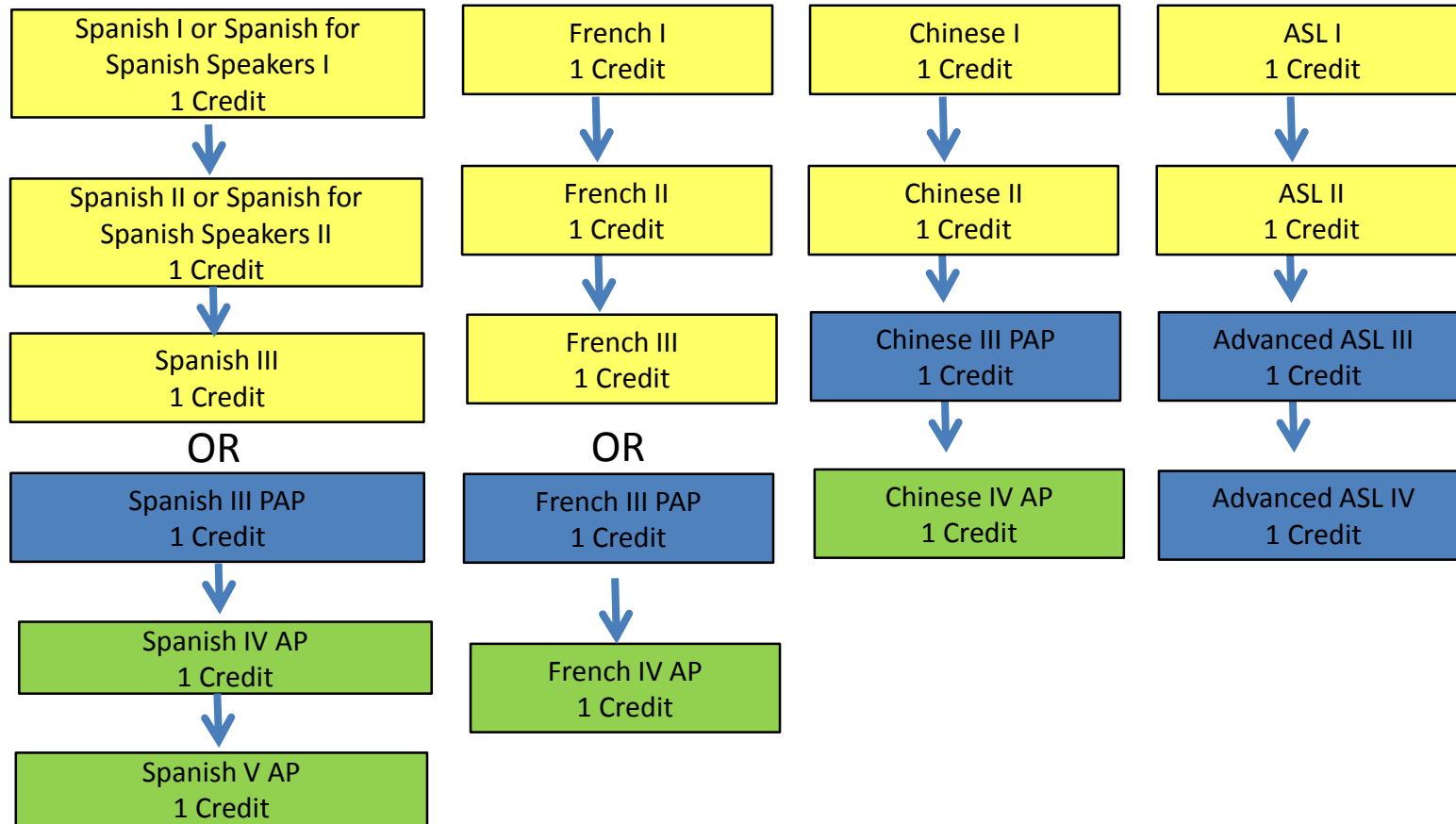


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Arts & Humanities Endorsement

4 Credits in the **SAME** Language Sequence

2017-2018



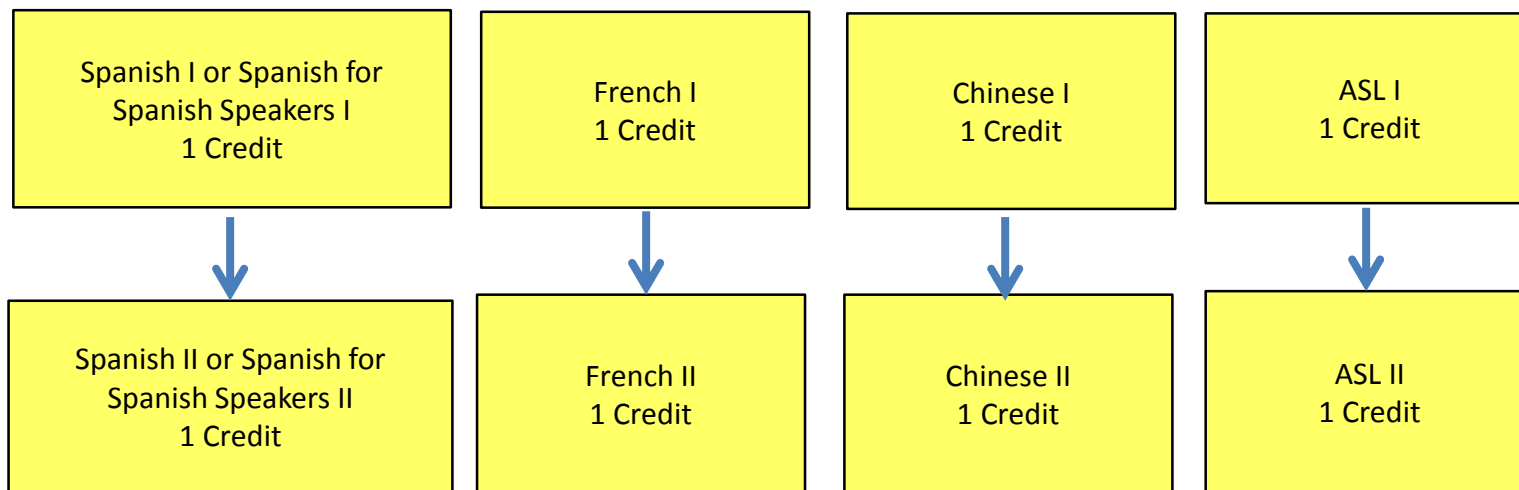
- Academic
- Advanced/PAP/Dual
- AP
- Certification
- Articulated Credit






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Arts & Humanities Endorsement

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

2017-2018



	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

2017-2018

Additional
Elective
Courses

Art History AP
1 Credit

Music Theory
AP
1 Credit

Art I and/or
Art & Media
Communications
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

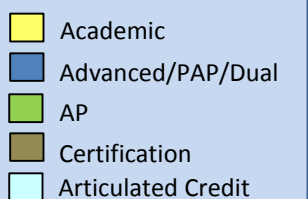
Music IV
1 Credit

Theatre I and/or
Theater and
Media
Communications
1 Credit

Theatre II
1 Credit

Theatre III
1 Credit

Theatre IV
1 Credit

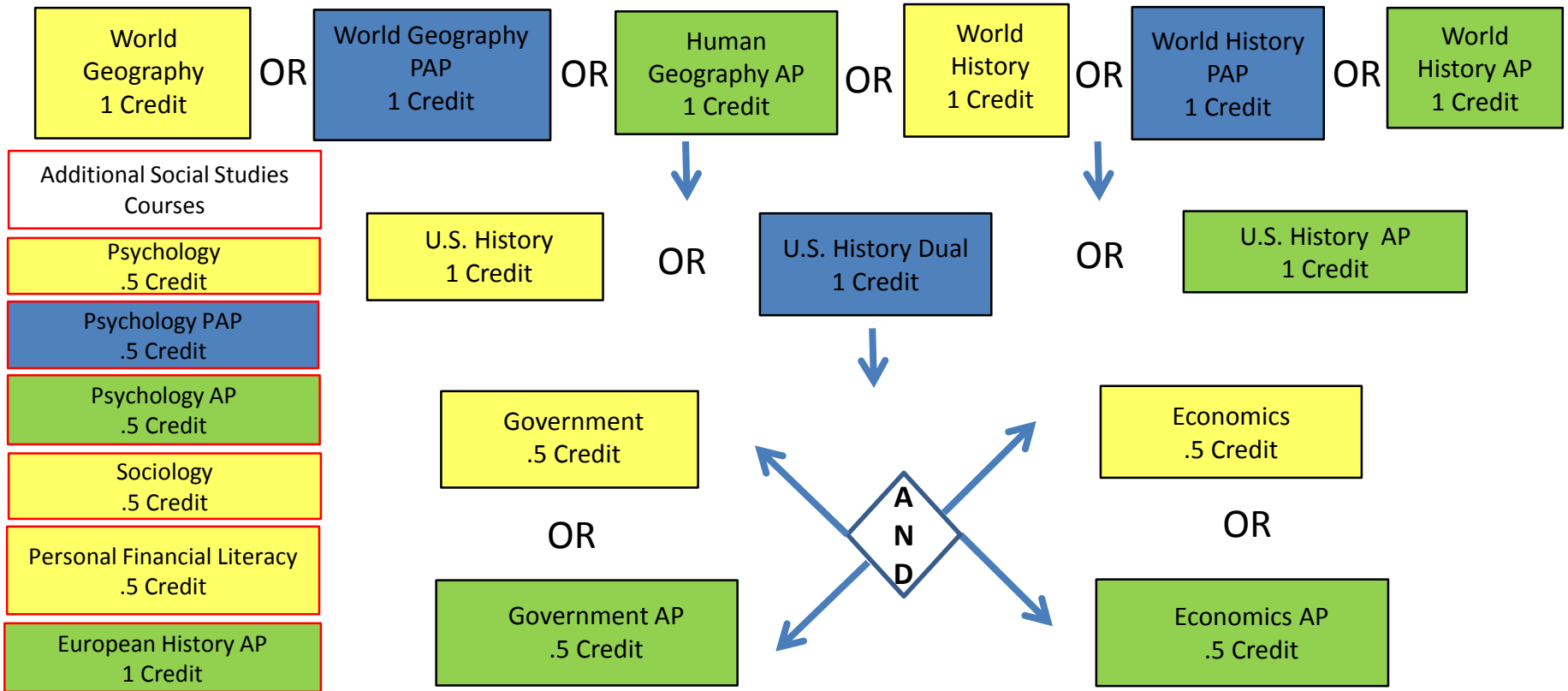


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Arts & Humanities Endorsement : Social Studies

5 credits in Social Studies

2017-2018

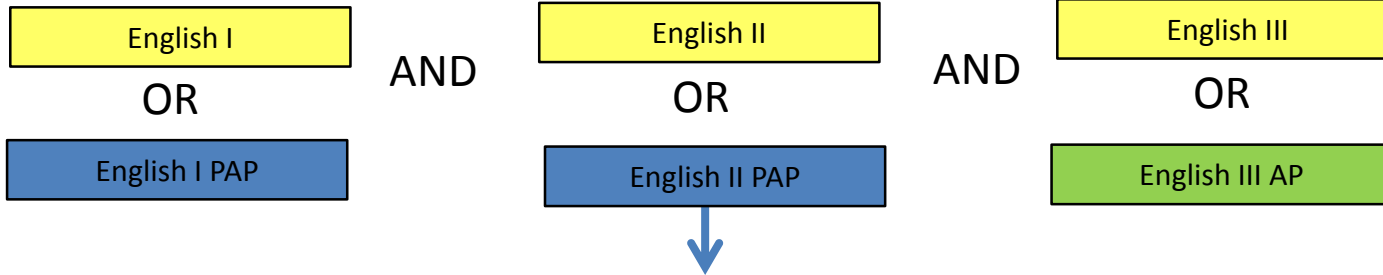


	Academic
	Advanced/PAP/Dual
	AP
	Certification
	Articulated Credit

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Arts & Humanities Endorsement : English

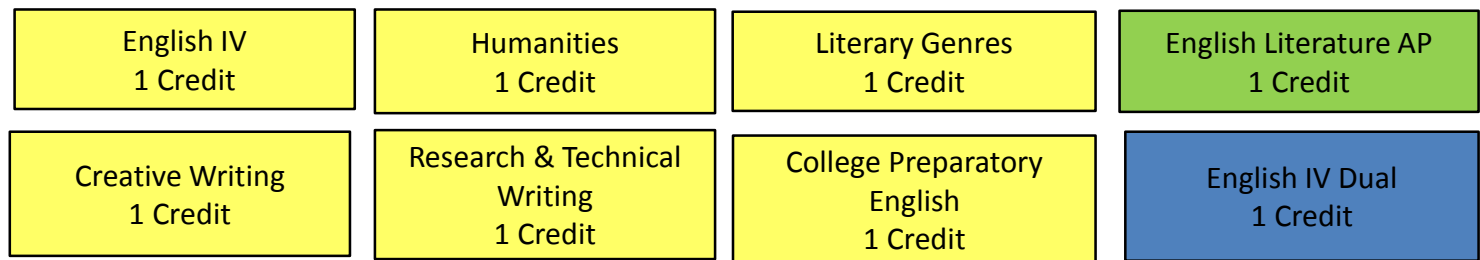
7 credits in English



(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



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

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

Business/Industry Endorsement

Agriculture, Food, & Natural Resources: Animal Science

2017-2018



Additional Elective Courses

~~Agricultural Mechanics & Metal Technologies
1 Credit~~

Agribusiness Management & Marketing
1 Credit

Livestock Production
1 Credit

8th – 12th

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

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

9th – 12th

Principles of Agriculture, Food & Natural Resources
1 Credit

Small Animal Management
.5 Credit

AND

Equine Science
.5 Credit

Veterinary Medical Applications
1 Credit

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

OR

Advanced Animal Science
1 Credit

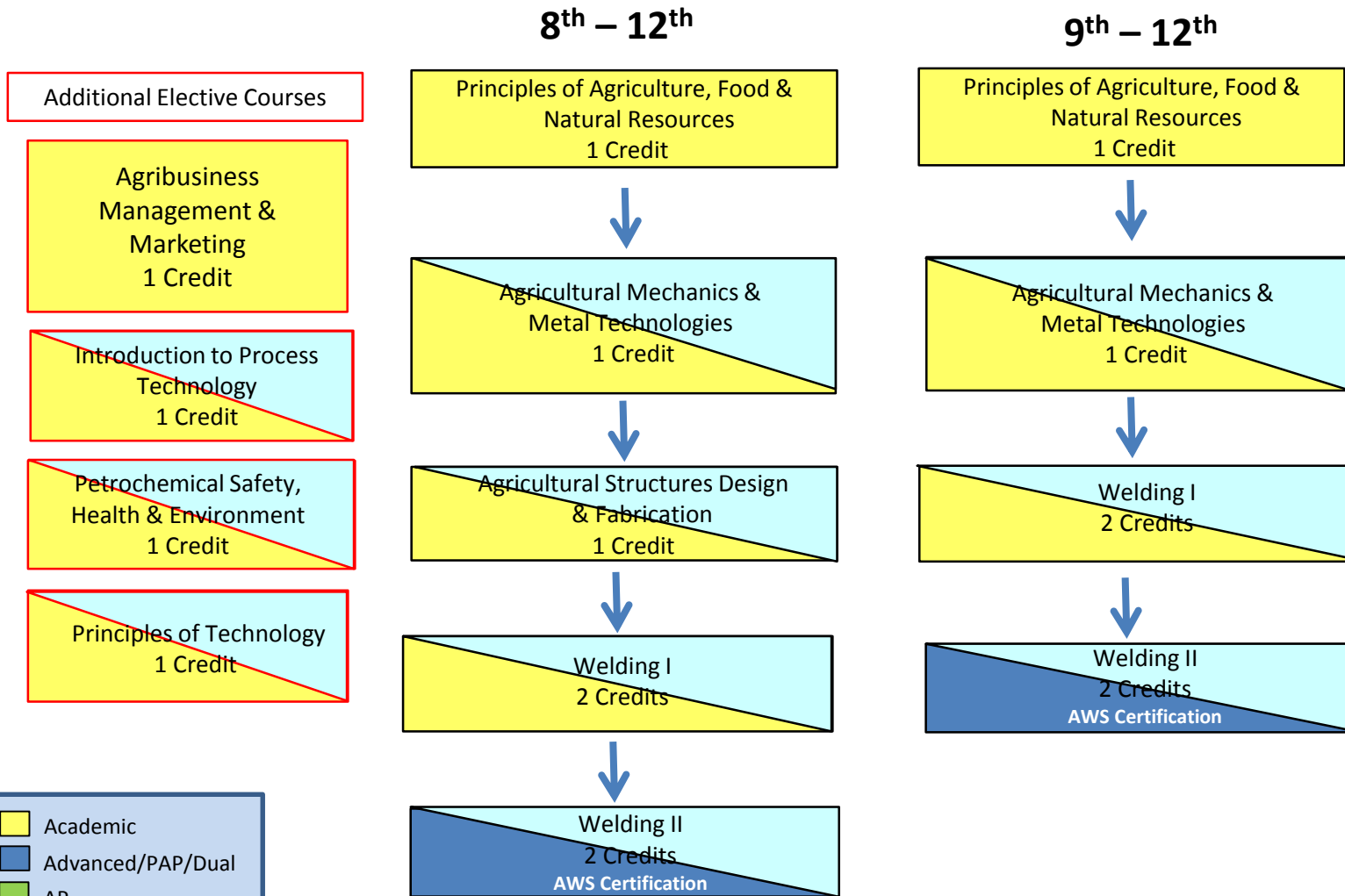
- Academic
- Advanced/PAP/Dual
- AP
- Certification
- Articulated Credit

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Business/Industry Endorsement

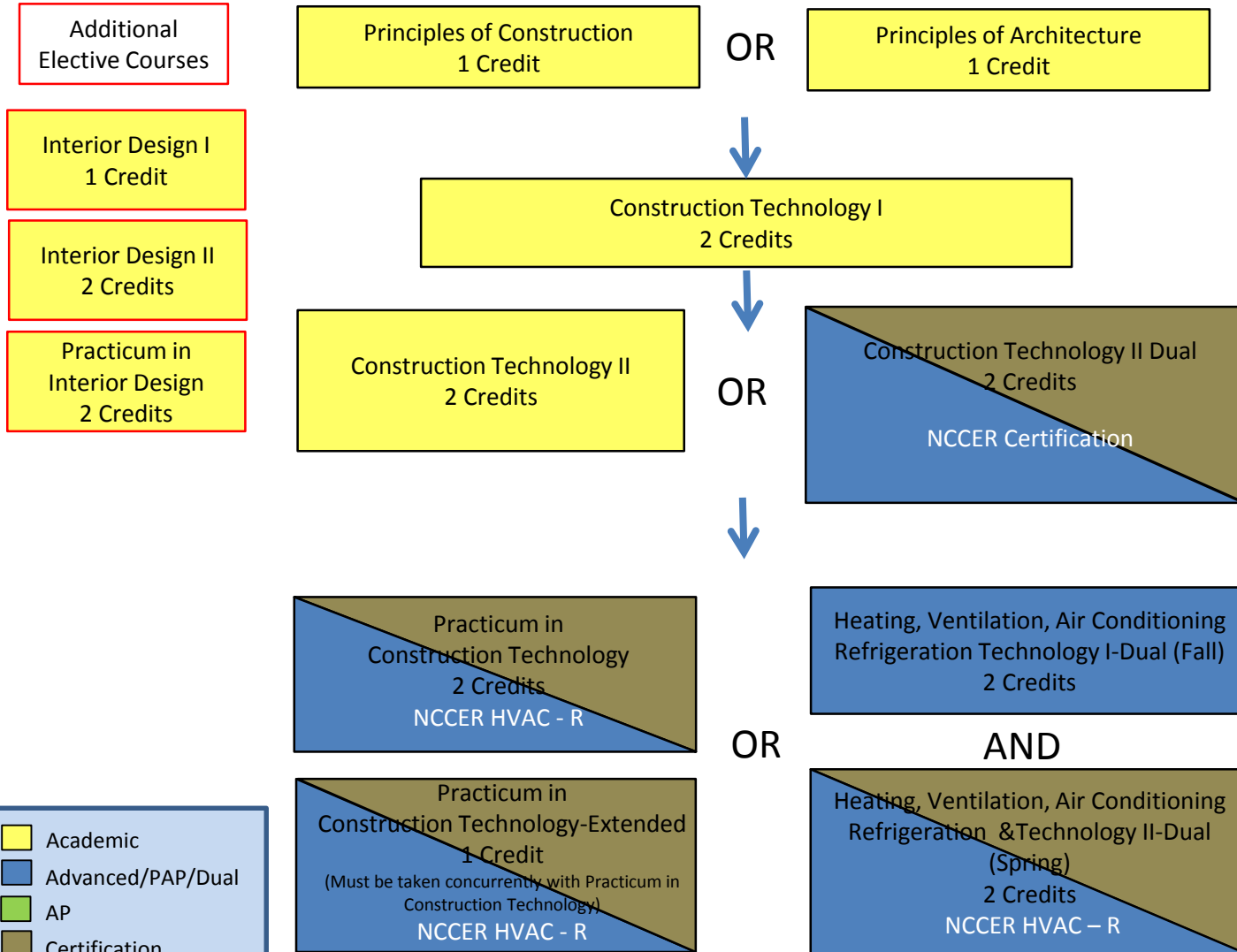
Manufacturing: Welding

2017-2018



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Business/Industry Endorsement: Architecture & Construction: Construction 2017-2018



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Business/Industry Endorsement: Arts, Audio/Video Technology & Communications 2017-2018



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

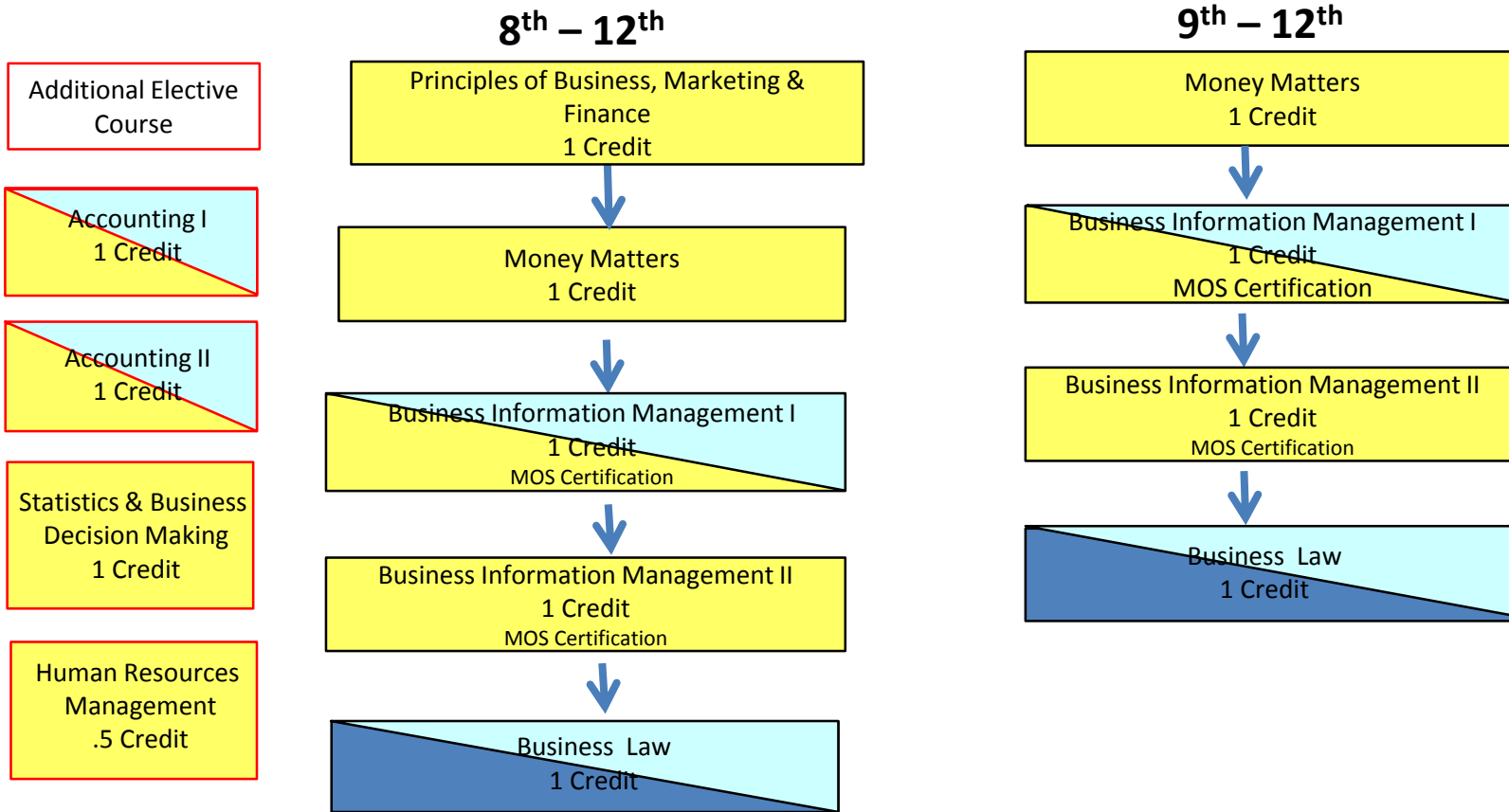
Graphic Design &
Illustration II-Lab
2 Credits

Audio/Video Production
II-Lab
2 Credits

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

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Business/Industry Endorsement Business Management & Administration 2017-2018



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Business/Industry Endorsement Hospitality & Tourism: Culinary Arts 2017-2018



8th - 12th

9th - 12th

Additional Elective
Course

Food Science
1 Credit

Principles of Hospitality & Tourism
1 Credit

Introduction to Culinary Arts
1 Credit

Introduction to Culinary Arts
1 Credit

Culinary Arts
2 Credits

Culinary Arts
2 Credits

Advanced Culinary Arts
2 Credits

Advanced Culinary Arts
2 Credits



Practicum in Culinary Arts
2 Credits
Certifications : ServSafe and ProStart

Practicum in Culinary Arts-Extended
1 Credit
(Must be taken concurrently with Practicum in
Culinary Arts)

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

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Business/Industry Endorsement: Information Technology: Computer Technology 2017-2018



Additional Elective Course

Digital Media
1 Credit
Adobe Certification

Principles of Information
Technology
1 Credit

Computer Maintenance
1 Credit
A+ Certification

AND

Computer Maintenance Lab
1 Credit
A+ Certification
(Must be taken concurrently with
Computer Maintenance)

Computer Technician Practicum
2 Credits
A+ Certification

OR

Computer Technician Practicum-Dual
2 Credits
A+ Certification

Computer Technician
Practicum-Extended
1 Credit
(Must be taken concurrently with
Computer Technician Practicum)



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

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Business/Industry Endorsement Marketing 2017-2018



Additional Elective Course

Sports & Entertainment Marketing
.5 Credit

AND

Advertising
.5 Credit

Digital Media
1 Credit
Adobe Certification

Entrepreneurship
1 Credit

Advanced Marketing
2 Credits

AND / OR

Practicum in Marketing
(First time taken)
2 Credits

Practicum in Marketing-Extended
(First time taken)
1 Credit
(Must be taken concurrently with Practicum in Marketing)

Practicum in Marketing
(Second time taken)
2 Credits

Practicum in Marketing-Extended
(Second time taken)
1 Credit
(Must be taken concurrently with Practicum in Marketing)

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

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Business/Industry Endorsement

Transportation, Distribution & Logistics: Automotive Technology 2017-2018



Energy & Power of Transportation Systems
1 Credit

Automotive Technology I:
Maintenance & Light Repair
2 Credits

Automotive Technology I:
Maintenance & Light Repair
Dual
2 Credits

Automotive
Technology II : Automotive Service
2 Credits

Automotive
Technology II : Automotive
Service Dual
2 Credits

Practicum in Transportation Systems
2 Credits
ASE Certification
Automotive

Diesel Equipment
Technology I
Dual-Fall
2 Credits

Practicum in Transportation
Systems-Extended
1 Credit
(Must be taken concurrently with
Practicum in Transportation Systems)
ASE Certification
Automotive

Diesel Equipment
Technology II
Dual-Spring
2 Credits

AND



	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 2017-2018

Additional Elective Course

Child Guidance
2 Credits

Lifetime Nutrition & Wellness
.5 Credit

Principles of Education & Training
1 Credit



Human Growth & Development
1 Credit



Instructional Practices
2 Credits



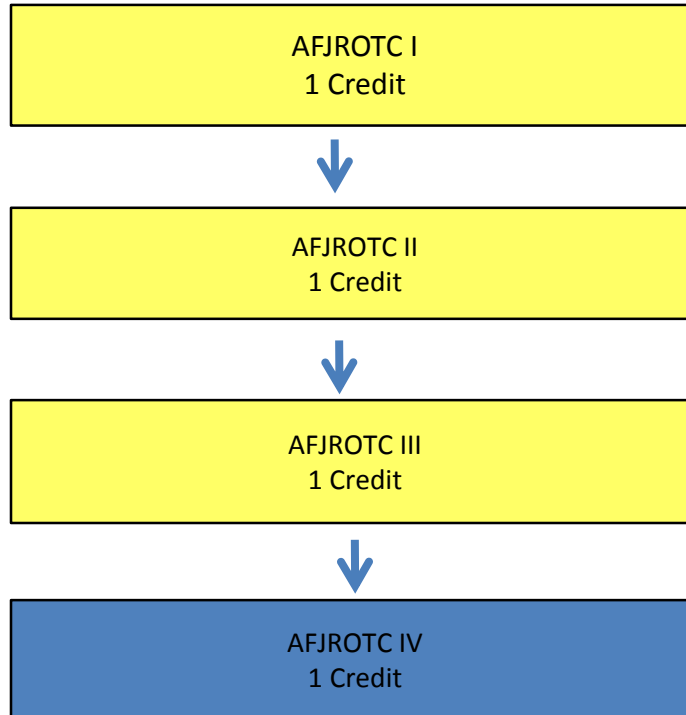
Practicum in Education & Training
2 Credits
Educational Aide I Certification

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

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Public Services Endorsement Air Force Junior ROTC 2017-2018

**PUBLIC
SERVICES**

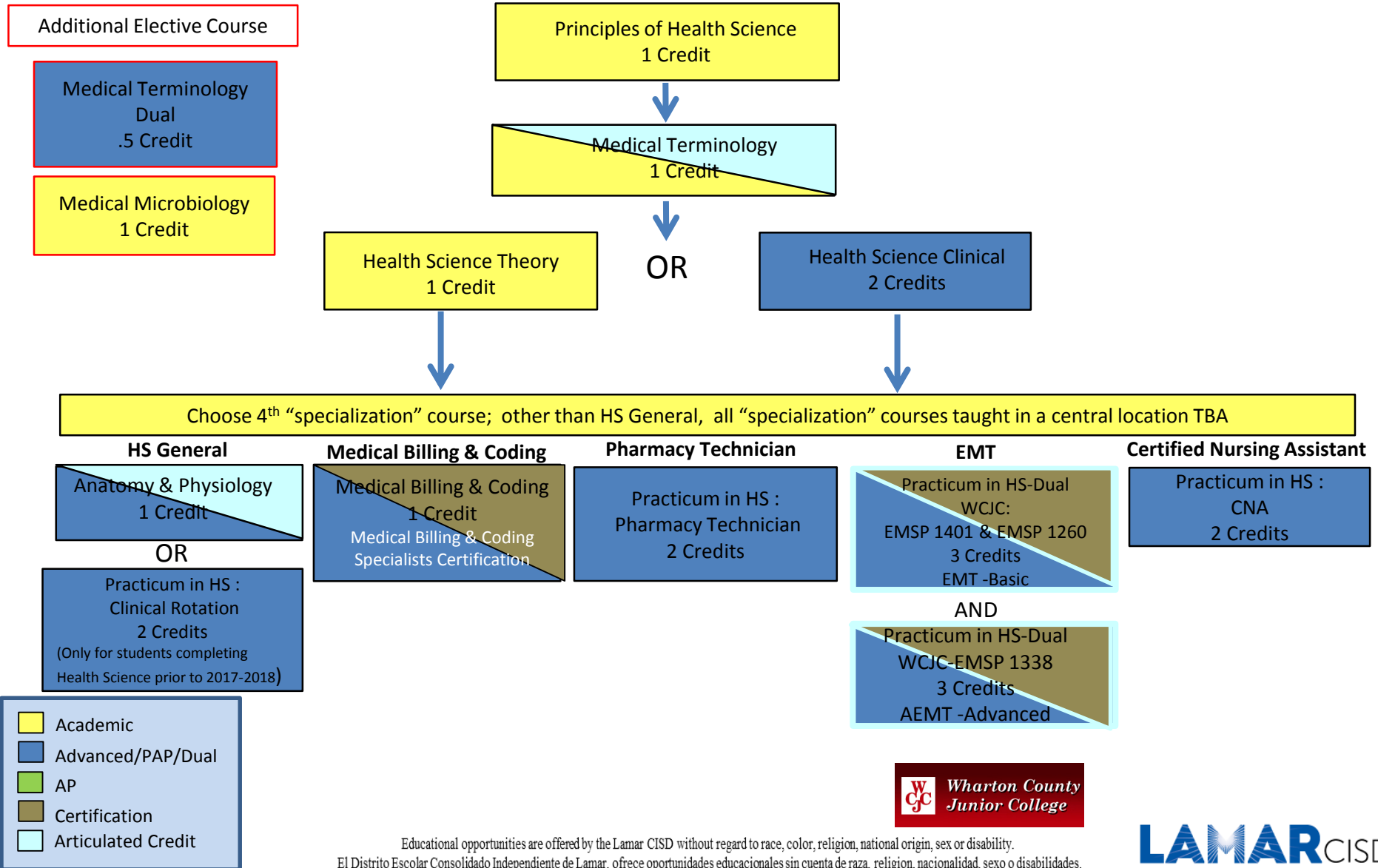


- Academic
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- AP
- Certification
- Articulated Credit

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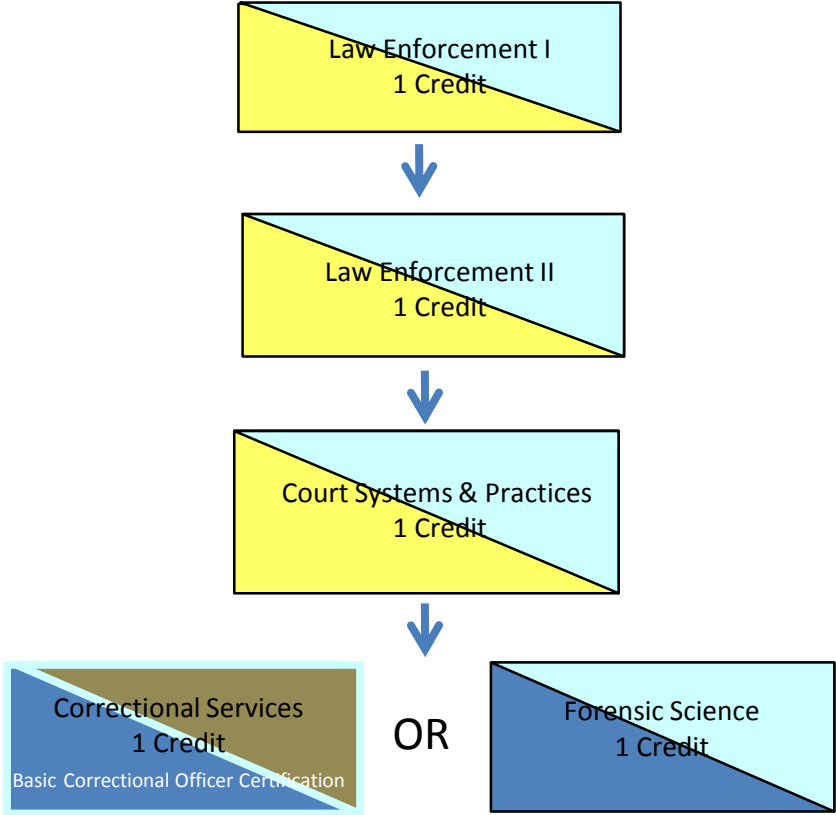
Public Service Endorsement Health Science 2017-2018

**PUBLIC
SERVICES**



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Public Services Endorsement Law Enforcement 2017-2018



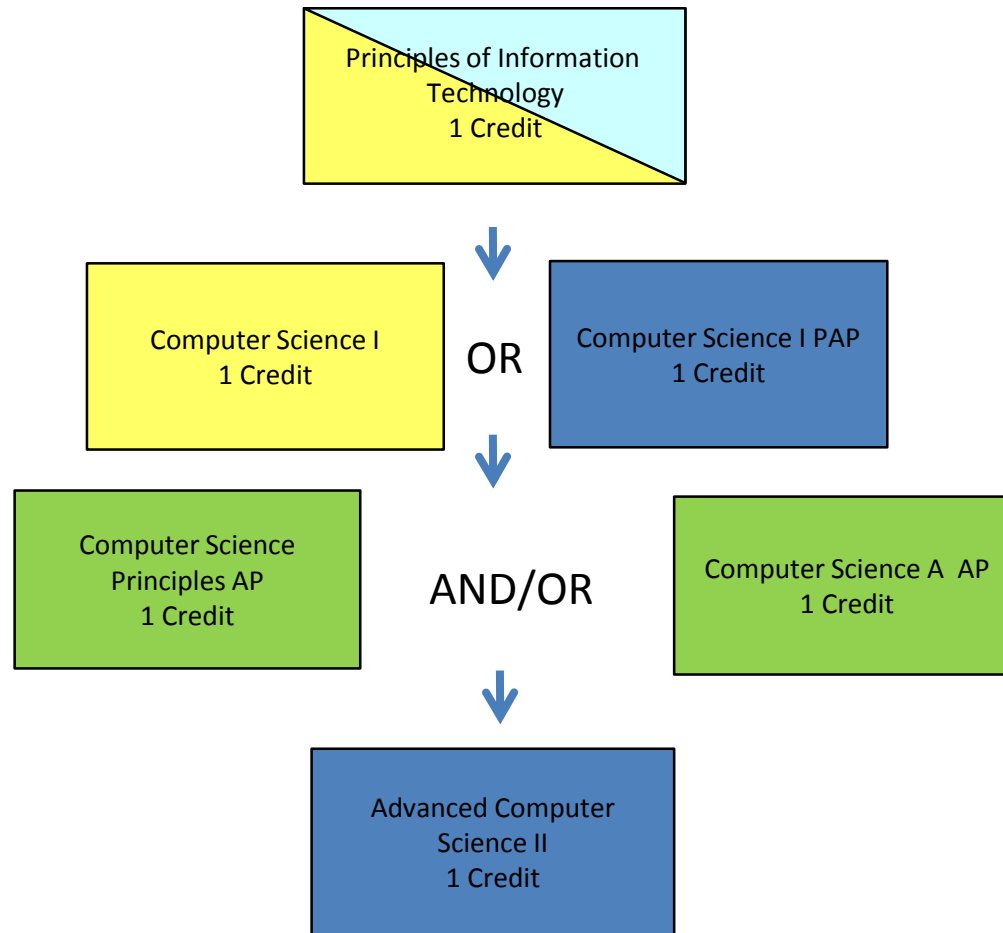
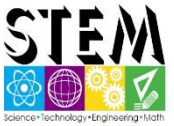
	Academic
	Advanced/PAP/Dual
	AP
	Certification
	Articulated Credit

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STEM Endorsement*

Computer Science

2017-2018



	Academic
	Advanced/PAP/Dual
	AP
	Certification
	Articulated Credit

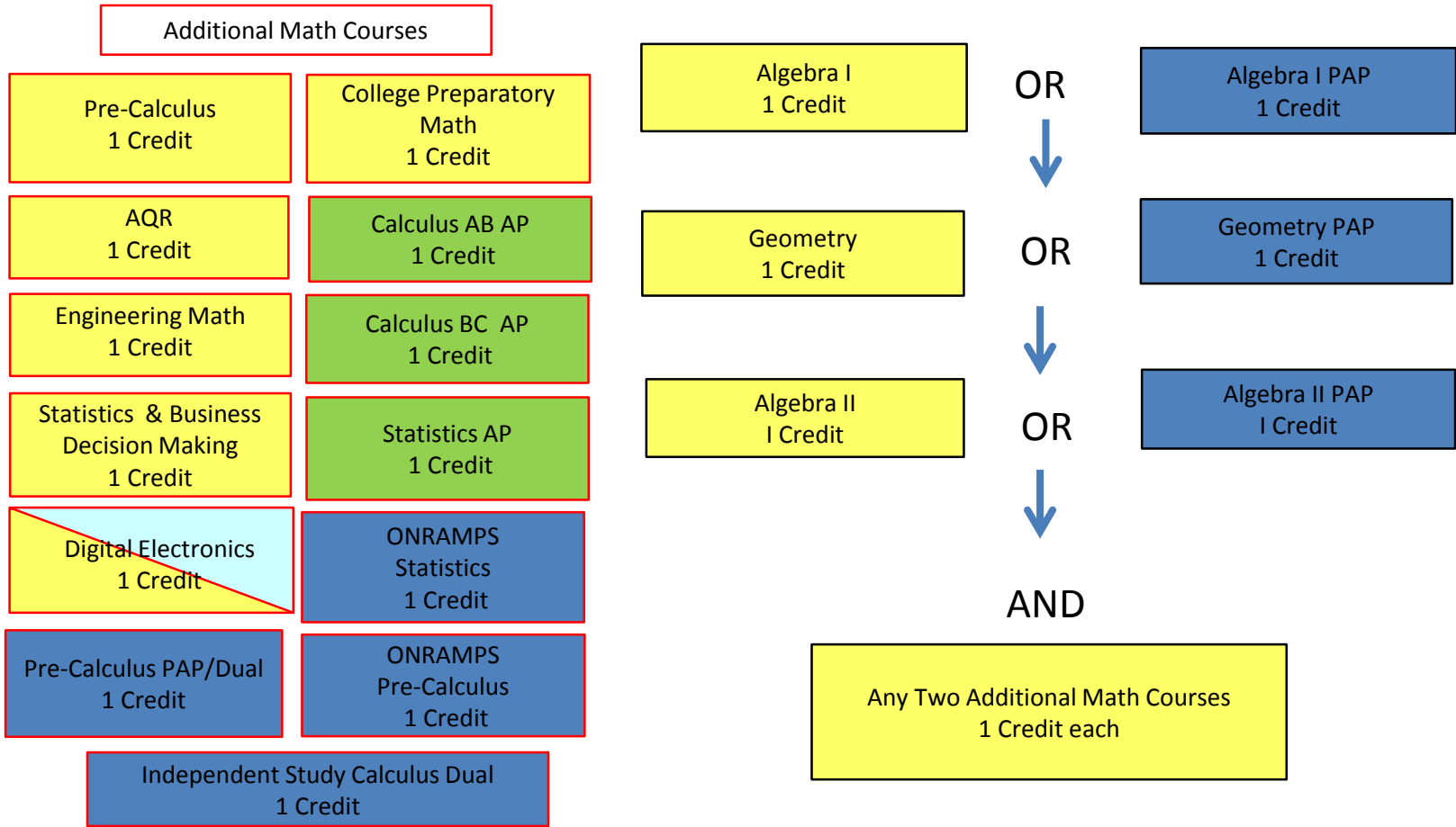
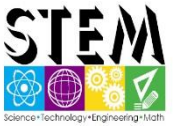
***Algebra II, Chemistry & Physics required for all STEM Endorsements**

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STEM Endorsement*

Mathematics

2017-2018



	Academic
	Advanced/PAP/Dual
	AP
	Certification
	Articulated Credit

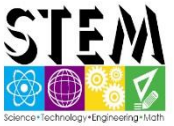
***Algebra II, Chemistry & Physics required for all STEM Endorsements**

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STEM Endorsement*

Science

2017-2018



Additional Science Courses

Advanced Animal Science 1 Credit	Engineering Design & Problem Solving 1 Credit
Astronomy 1 Credit	Physics II Dual 1 Credit
Aquatic Science 1 Credit	Forensic Science 1 Credit
Earth & Space Science 1 Credit	Biology II AP 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
1 Credit

OR

Biology PAP
1 Credit



Chemistry
1 Credit

OR

Chemistry PAP
1 Credit



Physics
1 Credit

OR

Physics PAP
1 Credit



AND

Any Two Additional Science Courses
1 Credit each

- 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

2017-2018

8th - 12th Grade

Principles of Applied Engineering
1 Credit



Introduction to Engineering Design
1 Credit



Engineering Specialization Courses
1 Credit

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



Engineering Science
1 Credit

OR

Digital Electronics
1 Credit



Engineering Design & Problem Solving - PLTW
1 Credit

9th - 12th Grade

Introduction to Engineering Design
1 Credit



Engineering Specialization Courses
1 Credit

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



Engineering Science
1 Credit

OR

Digital Electronics
1 Credit



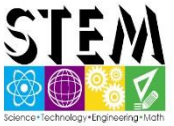
Engineering Design & Problem Solving - PLTW
1 Credit

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

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

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STEM Endorsement* 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

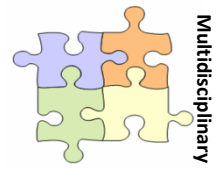
STEM Endorsement- Computer Science

- 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