CTE Flow Charts

Key

| Indicates Advanced Course | Indicates Limited Seating Course | Indicates Prerequisite(s) Required |

Middle School CTE Courses

Options For High School Credit

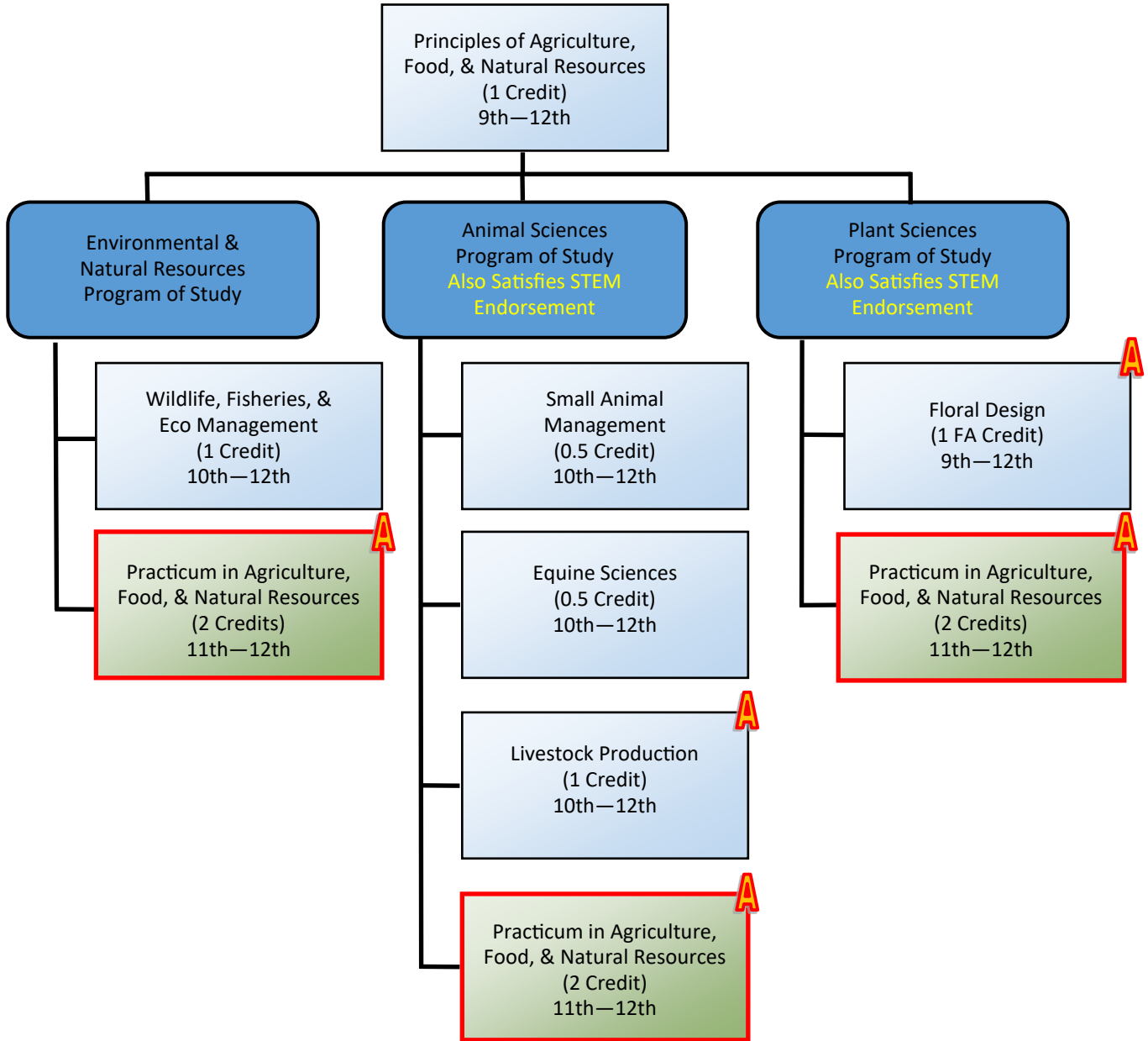|		
Principles of Arts, A/V, Tech & Communications (1 Credit) 8th	Digital Design & Media Production (1 Credit) 8th	Principles of Manufacturing (1 Credit) 8th
Digital Art & Animation (1 Credit) 8th	Principles Of Applied Engineering (1 Credit) 8th	Touch Systems Data Entry (0.5 Credit) 8th
Video Game Design (1 Credit) 8th	Principles of Human Services (1 Credit) 8th	Professional Communications / CCR (0.5 Credit) 8th

Middle School Options

Investigating Careers (One Semester) 7th-8th	CP Technology (One Semester) 7th-8th	Information Technology (One Semester) 7th-8th

Agriculture, Food, & Natural Resources Cluster
Business and Industry Endorsement

Principles of Agriculture, Food, & Natural Resources
(1 Credit)
9th—12th

Environmental & Natural Resources Program of Study

Animal Sciences Program of Study
Also Satisfies STEM Endorsement

Plant Sciences Program of Study
Also Satisfies STEM Endorsement

Wildlife, Fisheries, & Eco Management
(1 Credit)
10th—12th

Practicum in Agriculture, Food, & Natural Resources
(2 Credits)
11th—12th

Small Animal Management
(0.5 Credit)
10th—12th

Equine Sciences
(0.5 Credit)
10th—12th

Livestock Production
(1 Credit)
10th—12th

Practicum in Agriculture, Food, & Natural Resources
(2 Credit)
11th—12th

Floral Design
(1 FA Credit)
9th—12th

Practicum in Agriculture, Food, & Natural Resources
(2 Credits)
11th—12th

Students may earn the Business & Industry Endorsement or STEM by successfully completing 4 or more credits from any combination of pathways above and/or 1 or more of the following:
- Touch System Data Entry (0.5 credit)
- Global Business (0.5 credit)
- Business Information Management l (1 credit)
- Professional Communication (0.5 credit)

Architecture & Construction Cluster
Business and Industry Endorsement
Also Satisfies STEM Endorsement

Architectural Design Program of Study

Principles of Architecture
(1 Credit)
9th—12th

Interior Design Sequence

Interior Design 1
(1 Credit)
10th—12th

Interior Design 2
(2 Credits)
11th—12th

A

Practicum in Interior Design
(2 Credits)

A

Architectural Design Sequence

Architectural Design 1
(1 Credit)
10th—12th

Architectural Design 2
(2 Credits)
11th—12th
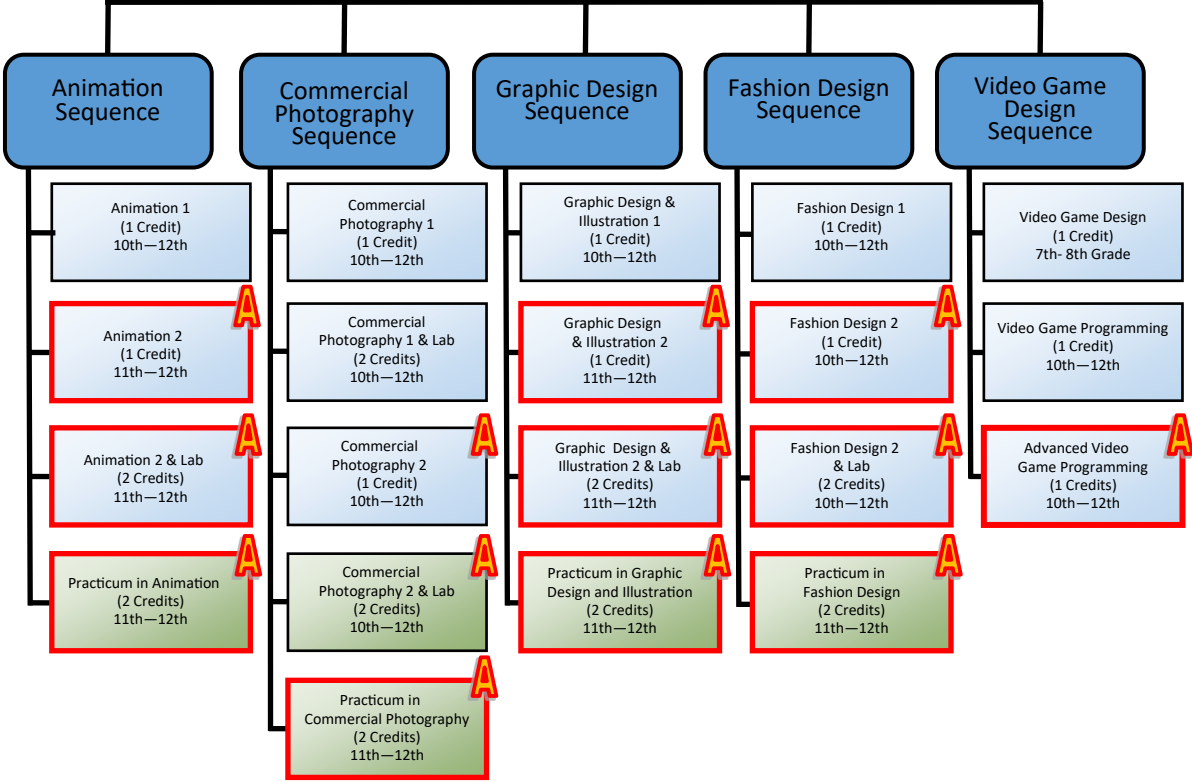
A

Practicum in Architectural Design
(2 Credits)

A

Students may earn the Business & Industry Endorsement or STEM by successfully completing 4 or more credits from any combination of pathways above and/or 1 or more of the following:
- Touch System Data Entry (0.5 credit)
- Global Business (0.5 credit)
- Business Information Management l (1 credit)
- Professional Communication (0.5 credit)

Arts, Audio/Video Technology, & Communications Cluster
Business and Industry Endorsement

Digital Design & Media Prod. (1 Credit) 7th-8th	Principles of Arts, A/V, Tech & Communications (1 Credit) 9th	Digital Art & Animation (1 Credit) 7th-8th
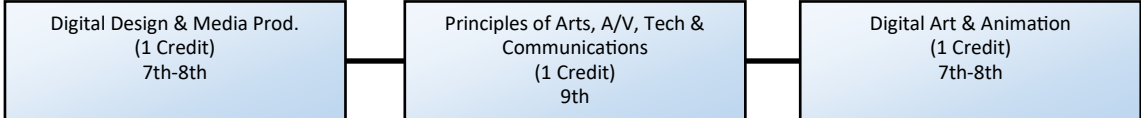
Design & Multimedia Arts Program of Study

Animation Sequence	Commercial Photography Sequence	Graphic Design Sequence	Fashion Design Sequence	Video Game Design Sequence
Animation 1 (1 Credit) 10th—12th	Commercial Photography 1 (1 Credit) 10th—12th	Graphic Design & Illustration 1 (1 Credit) 10th—12th	Fashion Design 1 (1 Credit) 10th—12th	Video Game Design (1 Credit) 7th- 8th Grade
Animation 2 (1 Credit) 11th—12th	Commercial Photography 1 & Lab (2 Credits) 10th—12th	Graphic Design & Illustration 2 (1 Credit) 11th—12th	Fashion Design 2 (1 Credit) 10th—12th	Video Game Programming (1 Credit) 10th—12th
Animation 2 & Lab (2 Credits) 11th—12th	Commercial Photography 2 (1 Credit) 10th—12th	Graphic Design & Illustration 2 & Lab (2 Credits) 11th—12th	Fashion Design 2 & Lab (2 Credits) 10th—12th	Advanced Video Game Programming (1 Credits) 10th—12th
Practicum in Animation (2 Credits) 11th—12th	Commercial Photography 2 & Lab (2 Credits) 10th—12th	Practicum in Graphic Design and Illustration (2 Credits) 11th—12th	Practicum in Fashion Design (2 Credits) 11th—12th	
	Practicum in Commercial Photography (2 Credits) 11th—12th			

Students may earn the Business & Industry Endorsement by successfully completing 4 or more credits from any combination of pathways above and/or 1 or more of the following:

- Touch System Data Entry (0.5 credit)
- Global Business (0.5 credit)
- Business Information Management l (1 credit)
- Professional Communication (0.5 credit)

Arts, Audio/Video Technology, & Communications Cluster
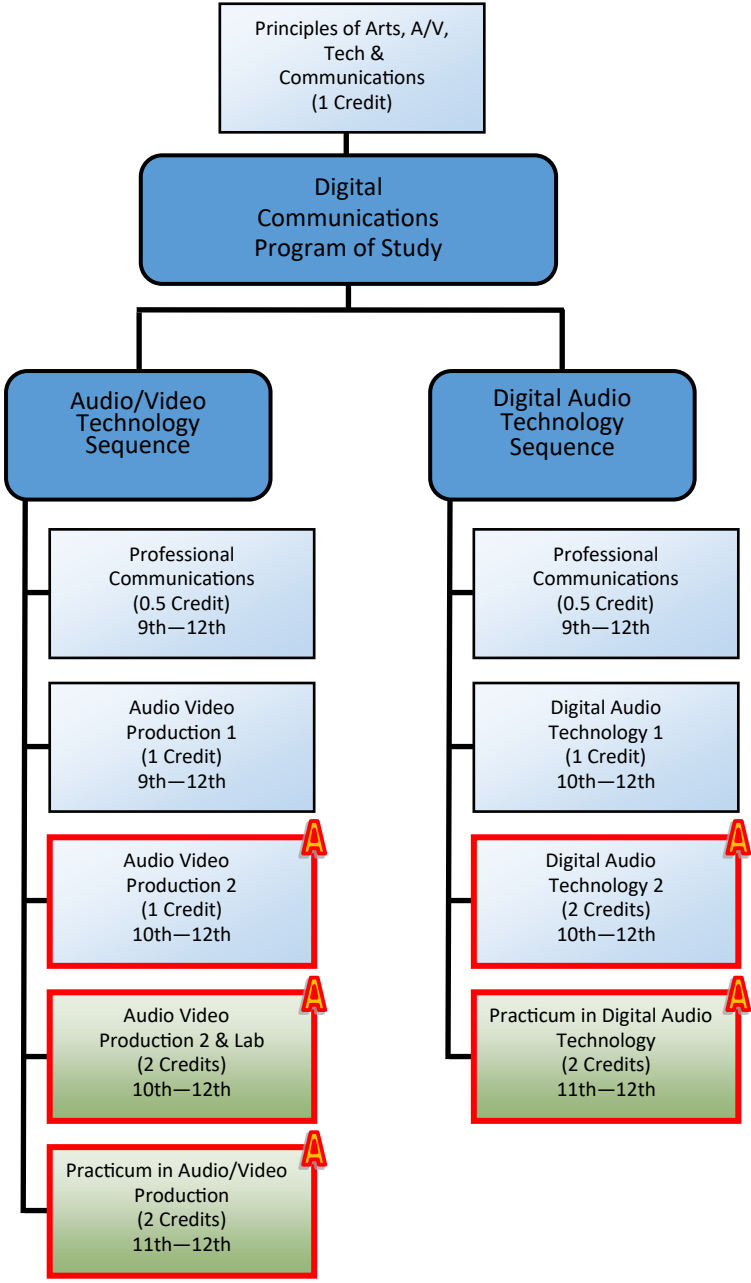### *Business and Industry Endorsement*

Principles of Arts, A/V, Tech & Communications
(1 Credit)

Digital Communications Program of Study

Audio/Video Technology Sequence

Professional Communications
(0.5 Credit)
9th—12th

Audio Video Production 1
(1 Credit)
9th—12th

Audio Video Production 2
(1 Credit)
10th—12th

Audio Video Production 2 & Lab
(2 Credits)
10th—12th

Practicum in Audio/Video Production
(2 Credits)
11th—12th

Digital Audio Technology Sequence

Professional Communications
(0.5 Credit)
9th—12th

Digital Audio Technology 1
(1 Credit)
10th—12th

Digital Audio Technology 2
(2 Credits)
10th—12th

Practicum in Digital Audio Technology
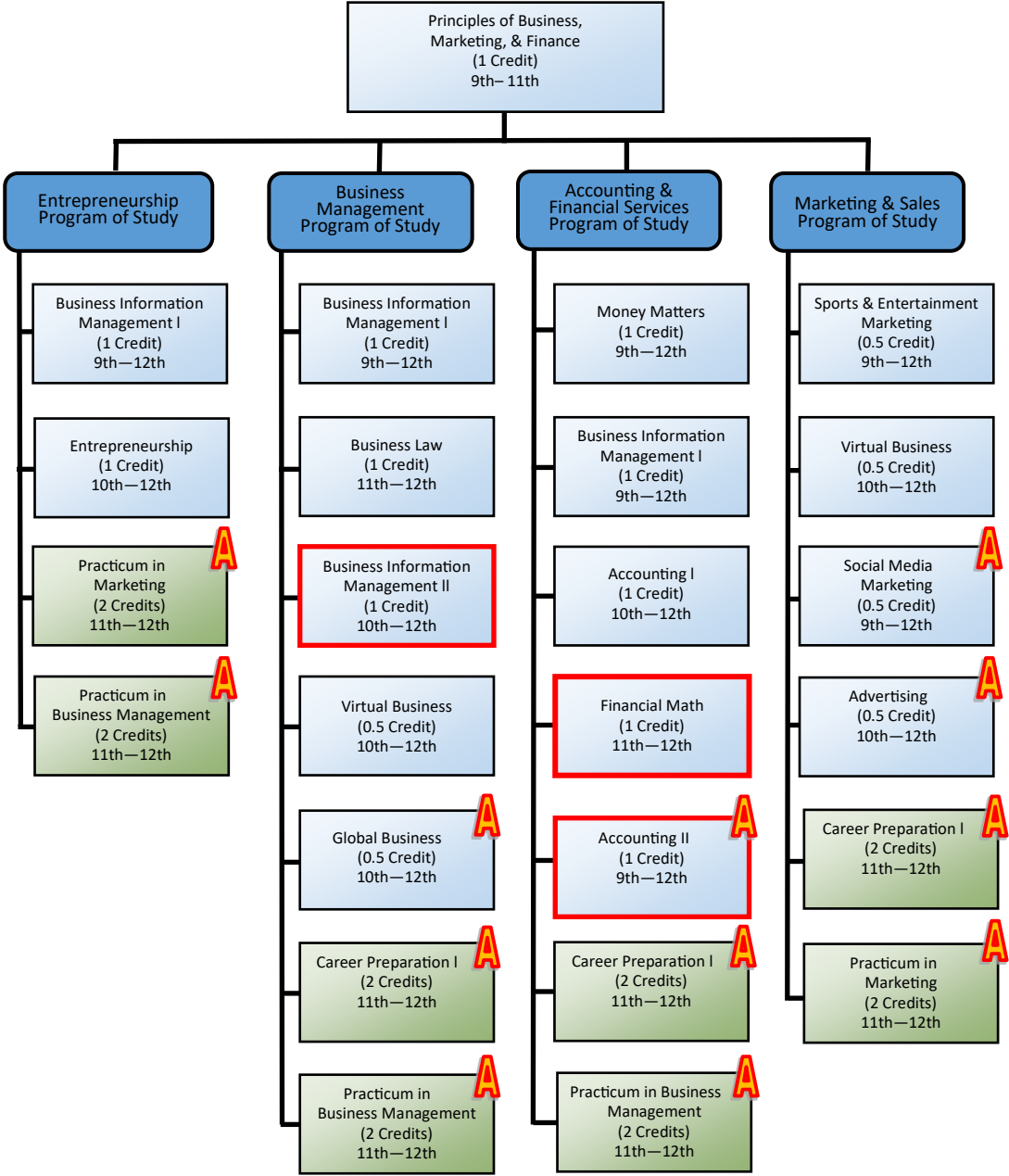(2 Credits)
11th—12th

Students may earn the Business & Industry Endorsement by successfully completing 4 or more credits from any combination of pathways above and/or 1 or more of the following:
- Touch System Data Entry (0.5 credit)
- Global Business (0.5 credit)
- Business Information Management l (1 credit)
- Professional Communication (0.5 credit)

Business, Marketing, & Finance Cluster
Business and Industry Endorsement

Principles of Business, Marketing, & Finance
(1 Credit)
9th– 11th

Entrepreneurship Program of Study

- Business Information Management I
(1 Credit)
9th—12th

- Entrepreneurship
(1 Credit)
10th—12th

- Practicum in Marketing
(2 Credits)
11th—12th

- Practicum in Business Management
(2 Credits)
11th—12th

Business Management Program of Study

- Business Information Management I
(1 Credit)
9th—12th

- Business Law
(1 Credit)
11th—12th

- Business Information Management II
(1 Credit)
10th—12th

- Virtual Business
(0.5 Credit)
10th—12th

- Global Business
(0.5 Credit)
10th—12th

- Career Preparation I
(2 Credits)
11th—12th

- Practicum in Business Management
(2 Credits)
11th—12th

Accounting & Financial Services Program of Study

- Money Matters
(1 Credit)
9th—12th

- Business Information Management I
(1 Credit)
9th—12th

- Accounting I
(1 Credit)
10th—12th

- Financial Math
(1 Credit)
11th—12th

- Accounting II
(1 Credit)
9th—12th

- Career Preparation I
(2 Credits)
11th—12th

- Practicum in Business Management
(2 Credits)
11th—12th

Marketing & Sales Program of Study

- Sports & Entertainment Marketing
(0.5 Credit)
9th—12th

- Virtual Business
(0.5 Credit)
10th—12th

- Social Media Marketing
(0.5 Credit)
9th—12th

- Advertising
(0.5 Credit)
10th—12th

- Career Preparation I
(2 Credits)
11th—12th

- Practicum in Marketing
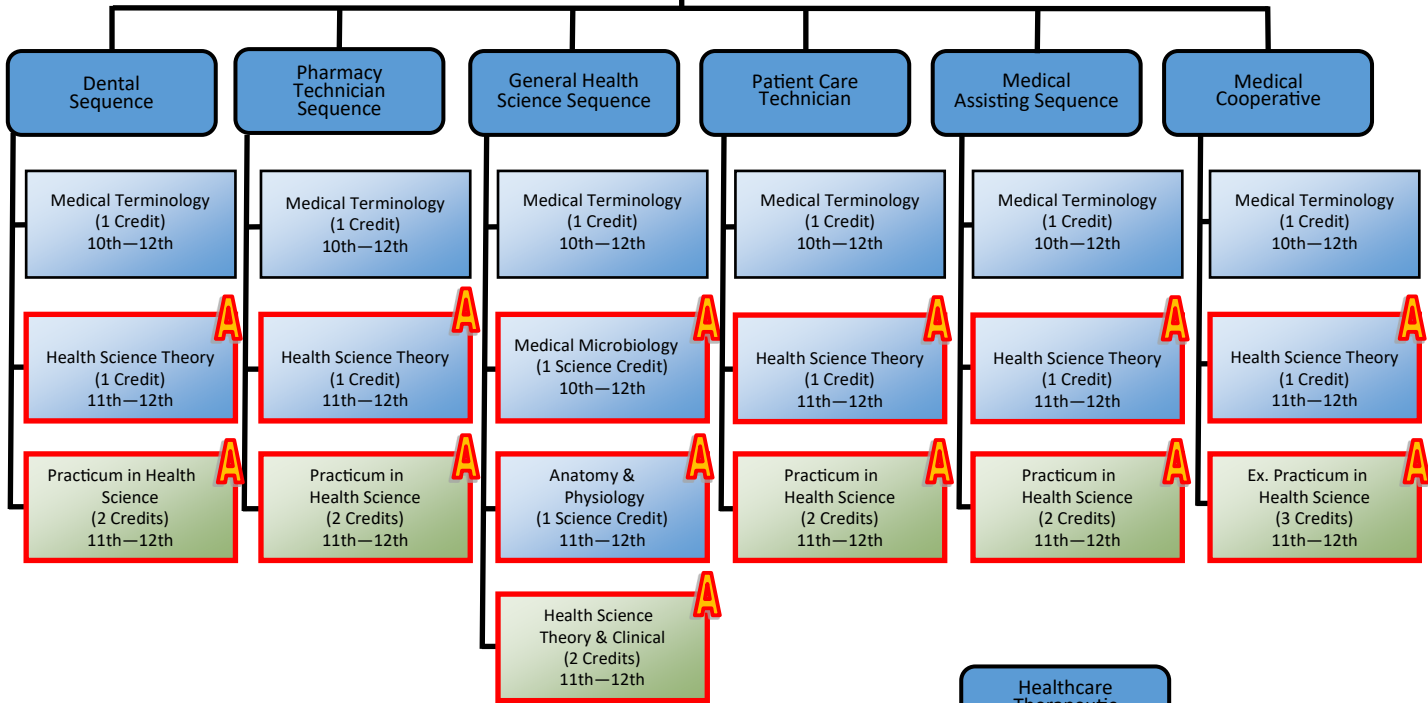(2 Credits)
11th—12th

Students may earn the Business & Industry Endorsement by successfully completing 4 or more credits from any combination of pathways above and/or 1 or more of the following:
- Touch System Data Entry (0.5 credit)
- Global Business (0.5 credit)
- Business Information Management l (1 credit)
- Professional Communication (0.5 credit)

Education & Training Cluster
Public Service Endorsement

Principles of Education & Training
(1 Credit)
9th– 10th

Principles of Human Services
(1 Credit)
8th-10th

Teaching & Training Program of Study

Human Growth & Development
(1 Credit)
10th—12th

Instructional Practices in Education & Training
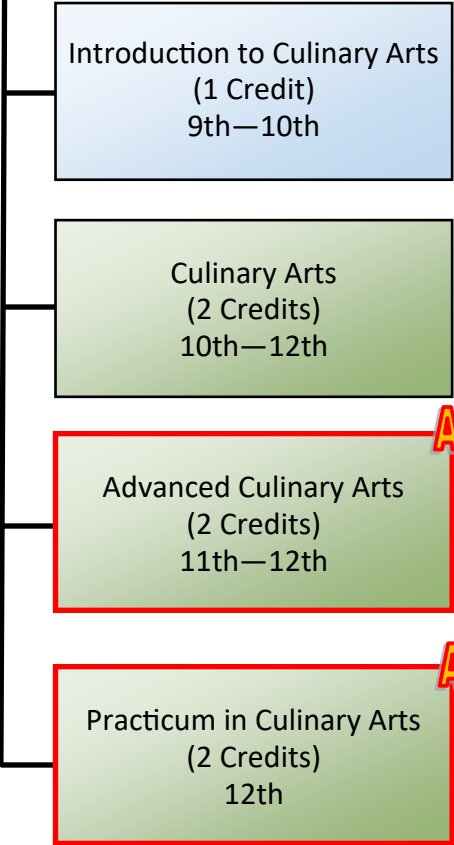(2 Credits)
11th—12th

A

Practicum in Education & Training
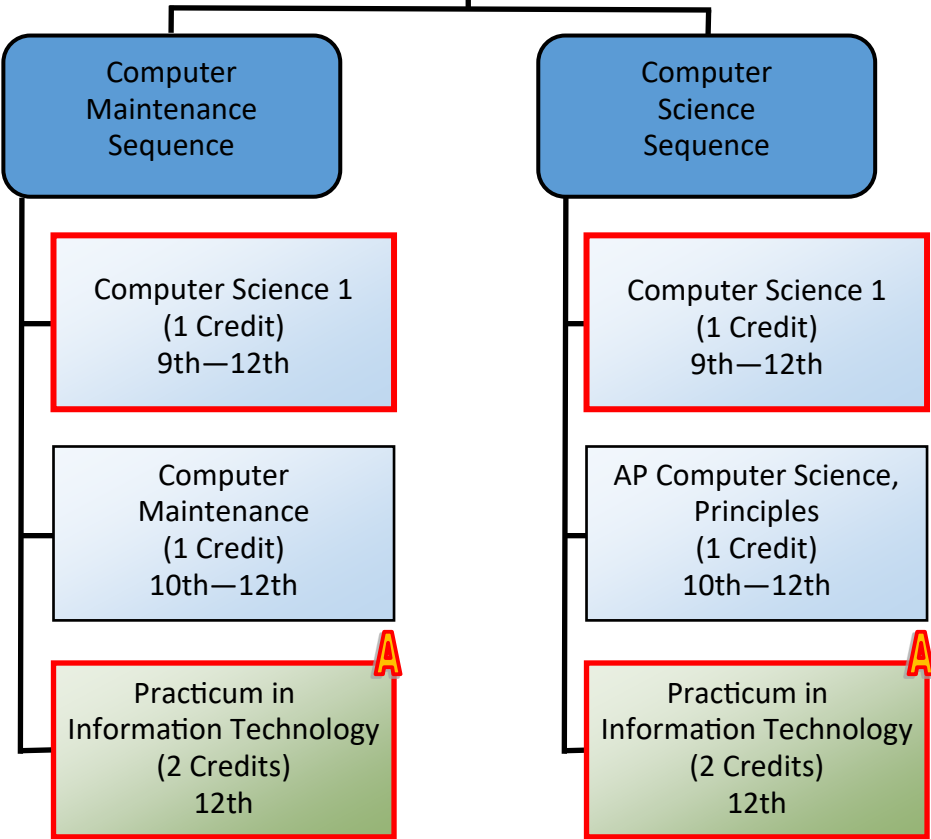(2 Credits)
12th

A

Students may earn the Public Services Endorsement by successfully completing 4 or more credits from any combination of pathways above and/or 1 or more of the following:

- Touch System Data Entry (0.5 credit)
- Global Business (0.5 credit)
- Business Information Management l (1 credit)
- Professional Communication (0.5 credit)

Health Science Cluster
Public Service Endorsement
Also Satisfies STEM Endorsement

Principles of Health Science
(1 Credit)
9th-10th

Healthcare Therapeutic Program of Study

Dental Sequence	Pharmacy Technician Sequence	General Health Science Sequence	Patient Care Technician	Medical Assisting Sequence	Medical Cooperative
Medical Terminology (1 Credit) 10th—12th	Medical Terminology (1 Credit) 10th—12th	Medical Terminology (1 Credit) 10th—12th	Medical Terminology (1 Credit) 10th—12th	Medical Terminology (1 Credit) 10th—12th	Medical Terminology (1 Credit) 10th—12th
Health Science Theory (1 Credit) 11th—12th	Health Science Theory (1 Credit) 11th—12th	Medical Microbiology (1 Science Credit) 10th—12th	Health Science Theory (1 Credit) 11th—12th	Health Science Theory (1 Credit) 11th—12th	Health Science Theory (1 Credit) 11th—12th
Practicum in Health Science (2 Credits) 11th—12th	Practicum in Health Science (2 Credits) 11th—12th	Anatomy & Physiology (1 Science Credit) 11th—12th	Practicum in Health Science (2 Credits) 11th—12th	Practicum in Health Science (2 Credits) 11th—12th	Ex. Practicum in Health Science (3 Credits) 11th—12th
		Health Science Theory & Clinical (2 Credits) 11th—12th			

Healthcare Therapeutic Program of Study

Athletic Trainer Sequence

Athletic Trainer 1
(1 Credit)
9th—10th

Athletic Trainer 2
(2 Credits)
10th—12th

Athletic Trainer 3
(2 Credits)
11th—12th

Athletic Trainer 4
(2 Credits)
12th

Students may earn the Public Service or STEM Endorsement by successfully completing 4 or more credits from any combination of pathways above and/or 1 or more of the following:
- Touch System Data Entry (0.5 credit)
- Global Business (0.5 credit)
- Business Information Management l (1 credit)
- Professional Communication (0.5 credit)

Hospitality & Tourism Cluster
Business and Industry Endorsement

Culinary Arts
Program of Study

Introduction to Culinary Arts
(1 Credit)
9th—10th

Culinary Arts
(2 Credits)
10th—12th

Advanced Culinary Arts
(2 Credits)
11th—12th
A

Practicum in Culinary Arts
(2 Credits)
12th
A

Students may earn the Business & Industry Endorsement by successfully completing 4 or more credits from any combination of pathways above and/or 1 or more of the following:
- Touch System Data Entry (0.5 credit)
- Global Business (0.5 credit)
- Business Information Management l (1 credit)
- Professional Communication (0.5 credit)

**Human Services
Cluster**
Public Services Endorsement

Health & Wellness
Program of Study

Principles of
Human Services
(1 Credit)
9th—12th

Interpersonal Studies
(0.5 Credit)
10th—12th

Lifetime Nutrition
& Wellness
(0.5 Credit)
10th—12th

Human Growth &
Development
(1 Credit)
10th—12th

A

Applied Nutrition &
Dietetics
(1 Credit)
10th—12th

A

Practicum in
Human Services
(2 Credits)
11th-12th

Students may earn the Public Services Endorsement by successfully completing 4 or more credits from any combination of pathways above and/or 1 or more of the following:
- Touch System Data Entry (0.5 credit)
- Global Business (0.5 credit)
- Business Information Management l (1 credit)
- Professional Communication (0.5 credit)

Information Technology Cluster
Business & Industry Endorsement
Also Satisfies STEM Endorsement

Principles of
Information Technology
(1 Credit)
9th—10th

Networking
Systems
Program of Study

Computer
Maintenance
Sequence

Computer
Science
Sequence

Computer Science 1
(1 Credit)
9th—12th

Computer Science 1
(1 Credit)
9th—12th

Computer
Maintenance
(1 Credit)
10th—12th

AP Computer Science,
Principles
(1 Credit)
10th—12th

A

A

Practicum in
Information Technology
(2 Credits)
12th

Practicum in
Information Technology
(2 Credits)
12th

Students may earn the Business & Industry or STEM Endorsement by successfully completing 4 or more credits from any combination of pathways above and/or 1 or more of the following:
- Touch System Data Entry (0.5 credit)
- Global Business (0.5 credit)
- Business Information Management l (1 credit)
- Professional Communication (0.5 credit)

Law & Public Service Cluster
Public Service Endorsement

Principles of Law, Public Safety,
Corrections, & Security
(1 Credit)
9th—12th

Law Enforcement Program of Study

Criminal Investigation
(1 Credit)
10th—12th

Law Enforcement 1
(1 Credit)
10th—12th

Law Enforcement 2
(1 Credit)
10th-12th

Correctional Services
(1 Credit)
10th—12th

Forensic Science
(1 Credit)
10th—12th

Practicum in Law,
Public Safety,
Corrections & Security
(2 Credits)
11th-12th

Legal Studies Program of Study

Court Systems & Practices
(1 Credit)
10th-12th

Business Law
(1 Credit)
11th-12th

Practicum in Law,
Public Safety,
Corrections & Security
(2 Credits)
11th-12th

Law Academy Program of Study

Law Enforcement 1
(1 Credit)
10th

Law Academy 1
(1 Credit)
11th

Law Academy 2
(1 Credit)
12th

Students may earn the Public Service Endorsement by successfully completing 4 or more credits from any combination of pathways above and/or 1 or more of the following:
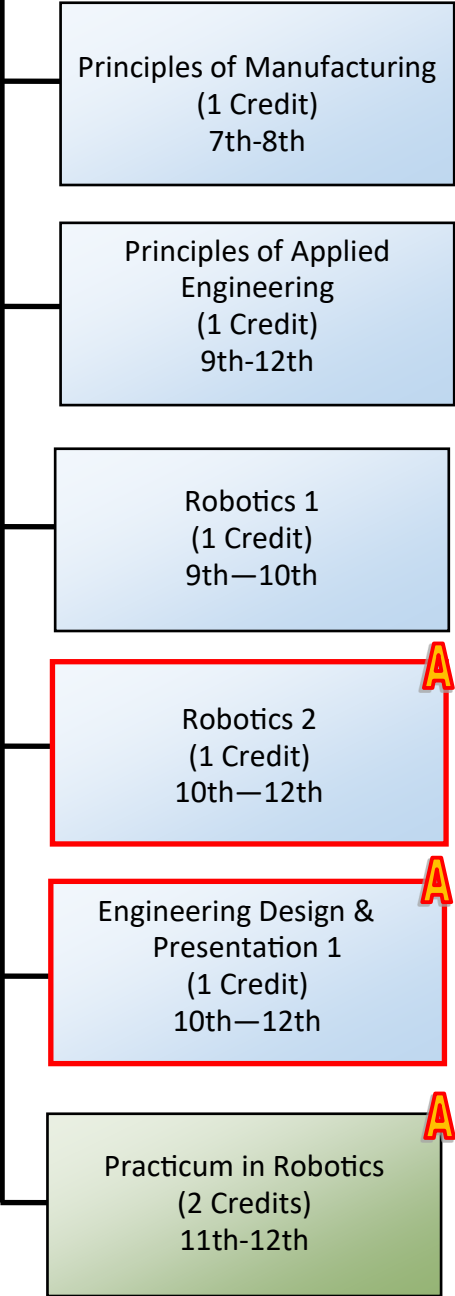- Touch System Data Entry (0.5 credit)
- Global Business (0.5 credit)
- Business Information Management l (1 credit)
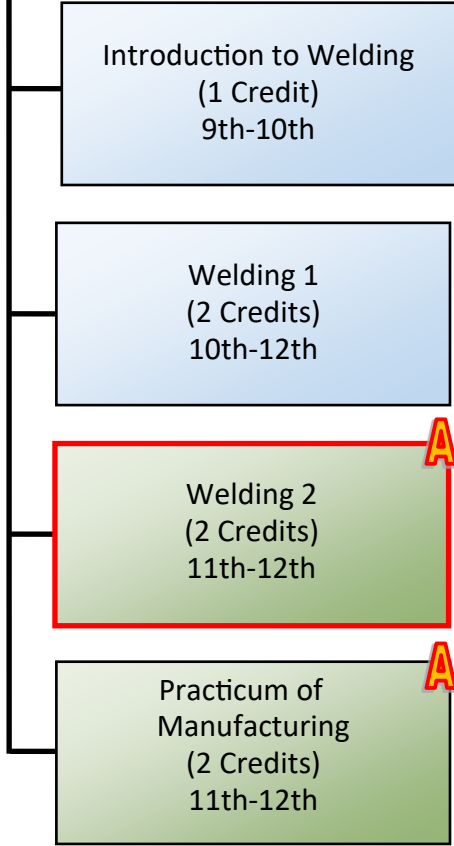- Professional Communication (0.5 credit)

Manufacturing
Cluster
Business & Industry Endorsement

Advanced Manufacturing & Machinery Mechanics Program of Study
Also Satisfies STEM Endorsement

Welding Program of Study

Principles of Manufacturing
(1 Credit)
7th-8th

Introduction to Welding
(1 Credit)
9th-10th

Principles of Applied Engineering
(1 Credit)
9th-12th

Welding 1
(2 Credits)
10th-12th

Robotics 1
(1 Credit)
9th—10th

Welding 2
(2 Credits)
11th-12th
A

Robotics 2
(1 Credit)
10th—12th
A

Practicum of Manufacturing
(2 Credits)
11th-12th
A

Engineering Design & Presentation 1
(1 Credit)
10th—12th
A

Practicum in Robotics
(2 Credits)
11th-12th
A

Students may earn the Business & Industry or STEM Endorsement by successfully completing 4 or more credits from any combination of pathways above and/or 1 or more of the following:
- Touch System Data Entry (0.5 credit)
- Global Business (0.5 credit)
- Business Information Management l (1 credit)
- Professional Communication (0.5 credit)

Science, Technology, Engineering, & Mathematics Cluster
STEM Endorsement
Also Satisfies B&I Endorsement

Engineering Program of Study

Principles of Applied Engineering
(1 Credit)
9th-10th

Engineering Design & Presentation 1
(1 Credit)
10th-12th
A

Engineering Design & Presentation 2
(2 Credits)
11th-12th
A

Aerospace 1
(1 Credit)
11th
A

Aerospace 2
(1 Credit)
12th
A

Practicum in STEM
(2 Credits)
11th-12th
A

Programming & Software Development Program of Study

Computer Science 1
(1 Credit)
9th—12th

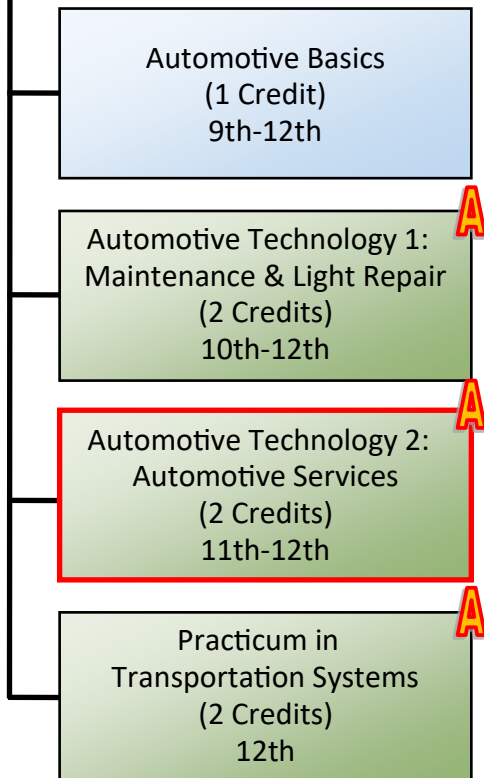**AP Computer Science, Principles**
(1 Credit)
10th—12th
A

Practicum in Information Technology
(2 Credits)
11th-12th
A

Students may earn the Business & Industry or STEM Endorsement by successfully completing 4 or more credits from any combination of pathways above and/or 1 or more of the following:
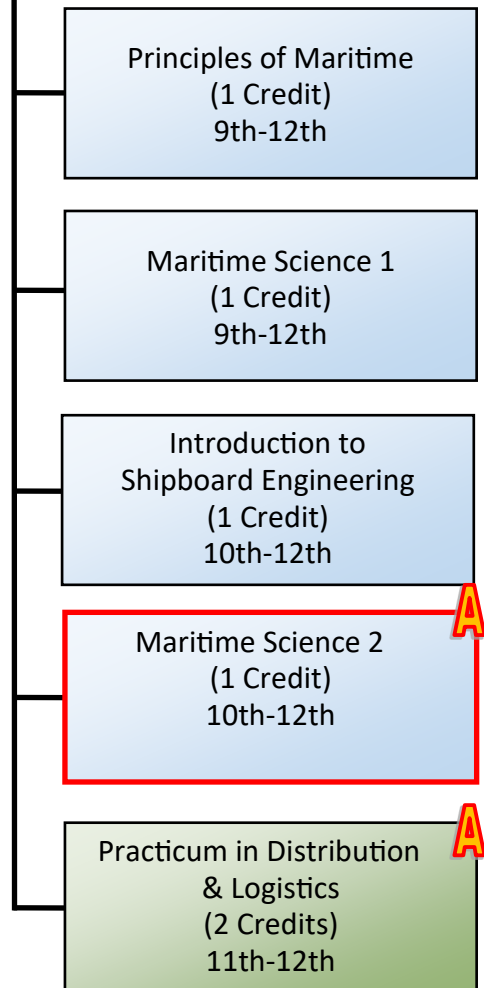- Touch System Data Entry (0.5 credit)
- Global Business (0.5 credit)
- Business Information Management l (1 credit)
- Professional Communication (0.5 credit)

Transportation, Distribution, & Logistics Cluster
Business & Industry Endorsement

Automotive Technology Program of Study

Automotive Basics
(1 Credit)
9th-12th

Automotive Technology 1: Maintenance & Light Repair
(2 Credits)
10th-12th
A

Automotive Technology 2: Automotive Services
(2 Credits)
11th-12th
A

Practicum in Transportation Systems
(2 Credits)
12th
A

Maritime Program of Study

Principles of Maritime
(1 Credit)
9th-12th

Maritime Science 1
(1 Credit)
9th-12th

Introduction to Shipboard Engineering
(1 Credit)
10th-12th

Maritime Science 2
(1 Credit)
10th-12th
A

Practicum in Distribution & Logistics
(2 Credits)
11th-12th
A

Students may earn the Business & Industry Endorsement by successfully completing 4 or more credits from any combination of pathways above and/or 1 or more of the following:
- Touch System Data Entry (0.5 credit)
- Global Business (0.5 credit)
- Business Information Management l (1 credit)
- Professional Communication (0.5 credit)