

CTE Endorsement Pathways

Agriculture, Food, and Natural Resources

In order for a student to receive CTE endorsement, **they must successfully complete a coherent sequence of 3 or more course for 4 or more credits within that endorsement area while observing all prerequisites**; the last course within the sequence must be an advanced course.

Agricultural Animal science Endorsement Pathway

Year One:

- Principles of Agriculture, Food, and Natural Resources - Animal Science (1 credit)

Year Two:

- Small Animal Management and Professional (.5 credit) and Professional Standards (.5 credit) and Livestock Production (1 credit)

Year Three:

- Veterinary Medical Applications (advanced course for 1 credit)

Year Four:

- Practicum of Agriculture, Food, and Natural Resources (advanced course for 2 credits)

Agricultural Mechanics Endorsement Pathway

Year One:

- Principles of Agriculture, Food, and Natural Resources - Mechanical (1 credit)

Year Two:

- Introduction to Welding (see Manufacturing Cluster) (1 credit)

Year Three and Four (option 1):

- Agricultural Equipment Design and Fabrication (advanced course for 1 credit)
- Agricultural Structures Design and Fabrication plus Agricultural Laboratory and Field Experience (advanced course for 2 credits)

Year Three and Four (option 2):

- Dual Credit Welding I (see Manufacturing Cluster) (advanced course for 2 credits)
- Dual Credit Welding II (see Manufacturing Cluster) (advanced course for 3 credits)

NOTE: General electives that can be embedded in any of the CTE Endorsements:

- Professional Communications for .5 credit
- Dollars and Sense for .5 credit
- General Employability Skills for 1 credit

Architecture and Construction

In order for a student to receive CTE endorsement, **they must successfully complete a coherent sequence of 3 or more course for 4 or more credits within that endorsement area while observing all prerequisites**; the last course within the sequence must be an advanced course.

Architecture Endorsement Pathway

Year One:

- Principles of Architecture (1 credit)

Year Two:

- Architecture Design (1 credit)

Year Three:

- Architecture Design II (advanced course for 2 credits)

Year Four (choose one):

- Construction Technology (advanced course for 1 credit) (preferred pathway for Industry Aligned Coherent Sequencing)
- OR; Engineering Design and Development (see STEM Cluster) (advanced course for 2 credits)

Construction Endorsement Pathway

Year One:

- Principles of Construction (1 credit)

Year Two:

- General Employability Skills (Recommended) (1 credit)

Year Three:

- Construction Technology I (2 credits)

Year Four (choose one):

- Construction Technology II (advanced course for 2 credits) (preferred pathway for Industry Aligned Coherent Sequencing)
- OR; Dual Credit Welding I (see Manufacturing Cluster) (advanced course for 2 credits)

NOTE: General electives that can be embedded in any of the CTE Endorsements:

- Professional Communications for .5 credit
- Dollars and Sense for .5 credit
- General Employability Skills for 1 credit

Arts, A/V Technology, and Communications

In order for a student to receive CTE endorsement, **they must successfully complete a coherent sequence of 3 or more course for 4 or more credits within that endorsement area while observing all prerequisites**; the last course within the sequence must be an advanced course.

Audio/Video Endorsement Pathway

Year One:

- Principles of Arts, A/V Technology, and Communications (1 credit)

Year Two:

- Audio Video Production (1 credit)

Year Three:

- Dual Credit Audio Video Production II and Production Lab (advanced course for 2 credit)

Year Four:

- Practicum in Audio Video Production (advanced course for 2 credits)

Non-Dual Credit Graphic Design Endorsement Pathway

Year One:

- Principles of Arts, A/V Technology, and Communications (1 credit)

Year Two:

- Graphic Design I (1 credit)

Year Three:

- Animation (1 credit)

Year Four:

- Video Game Design (advanced course for 1 credits)

Dual Credit Graphic Design Endorsement Pathway

Year One:

- Principles of Arts, A/V Technology, and Communications (1 credit)

Year Two:

- Dual Credit Graphic Design I (1 credit)

Year Three:

- Dual Credit Graphic Design II and Lab (advanced course for 2 credits)

Year Four:

- Dual Credit Practicum in Graphic Design and Illustration (advanced course for 1 credits)

NOTE: General electives that can be embedded in any of the CTE Endorsements:

- Professional Communications for .5 credit
- Dollars and Sense for .5 credit
- General Employability Skills for 1 credit

Business Management and Administration

In order for a student to receive CTE endorsement, **they must successfully complete a coherent sequence of 3 or more course for 4 or more credits within that endorsement area while observing all prerequisites**; the last course within the sequence must be an advanced course.

Business I Endorsement Pathway

Year One:

- Principles of Business, Marketing, and Finance (1 credit)

Year Two:

- Business Information Management I (1 credit)

Year Three:

- Business Information Management II (advanced course for 1 credit)

Year Four (choose one or both):

- Practicum in Business Management (advanced course for 2 credits) (preferred pathway for Industry Aligned Coherent Sequencing)
- Statistics & Business Decision Making (see Finance Cluster) (advanced course for 1 credit) (Math Grad Credit)

Business II Endorsement Pathway

Year One:

- Principles of Business, Marketing, and Finance (1 credit)

Year Two:

- Virtual Business (.5 credit) and Banking & Financial Services (see Finance Cluster) (.5 credit)

Year Three:

- Business Law (advanced course for 1 credit)

Year Four (choose one or both):

- Practicum in Business Management (advanced course for 2 credits) (preferred pathway for Industry Aligned Coherent Sequencing)
- Statistics & Business Decision Making (see Finance Cluster) (advanced course for 1 credit) (Math Grad Credit)

NOTE: General electives that can be embedded in any of the CTE Endorsements:

- Professional Communications for .5 credit
- Dollars and Sense for .5 credit
- General Employability Skills for 1 credit

Education

In order for a student to receive CTE endorsement, **they must successfully complete a coherent sequence of 3 or more course for 4 or more credits within that endorsement area while observing all prerequisites**; the last course within the sequence must be an advanced course.

Year One:

- Principles of Education (1 credit)

Year Two (all required):

- Child Development (see Human Resources Cluster) (1 credit)
- Interpersonal Studies (see Human Resources Cluster) (.5 credit)
- Dollars and Sense (see Human Resources Cluster) (.5 credit)

Year Three:

- Instructional Practices (advanced course for 2 credits)

Year Four:

- Practicum in Education and Training (advanced course for 2 credits)

NOTE: General electives that can be embedded in any of the CTE Endorsements:

- Professional Communications for .5 credit
- Dollars and Sense for .5 credit
- General Employability Skills for 1 credit

Finance

In order for a student to receive CTE endorsement, **they must successfully complete a coherent sequence of 3 or more course for 4 or more credits within that endorsement area while observing all prerequisites**; the last course within the sequence must be an advanced course.

Year One:

- Principles of Business, Marketing, and Finance (see Business Management and Administration Cluster) (1 credit)

Year Two:

- Accounting I (1 credit)

Year Three:

- Accounting II (advanced course for 1 credit) (Math Grad Credit)

Year Four (choose one or both):

- Practicum in Business Management (see Business Management and Administration Cluster) (advanced course for 2 credits)
- Statistics and Business Decision Making (advanced course for 1 credit) (Math Grad Credit)

NOTE: General electives that can be embedded in any of the CTE Endorsements:

- Professional Communications for .5 credit
- Dollars and Sense for .5 credit
- General Employability Skills for 1 credit

Health Science

In order for a student to receive CTE endorsement, **they must successfully complete a coherent sequence of 3 or more course for 4 or more credits within that endorsement area while observing all prerequisites**; the last course within the sequence must be an advanced course.

Health Science I Endorsement Pathway

Year One:

- Principles of Health Science (1 credit)

Year Two:

- Medical Terminology (1 credit)

Year Three (all required):

- Health Science Theory and Clinical (advanced course for 2 credits)
- Mathematics for Medical Professionals (advanced course for 1 credit) (Math Grad Credit)

Year Four:

- Practicum in Health Science (advanced course for 2 credits)

Health Science II Endorsement Pathway

Year One:

- Principles of Health Science (1 credit)

Year Two:

- Medical Terminology (1 credit)

Year Three:

- Choose one or both courses
 - Medical Microbiology (advanced course for 1 credit) (Science Grad Credit)
 - Anatomy and Physiology (advanced course for 1 credit) (Science Grad Credit)
- And also
 - Mathematics for Medical Professionals (advanced course for 1 credit) (Math Grad Credit)

Year Four:

- Pathophysiology (advanced course for 1 credit) (Science Grad Credit)

NOTE: General electives that can be embedded in any of the CTE Endorsements:

- Professional Communications for .5 credit
- Dollars and Sense for .5 credit
- General Employability Skills for 1 credit

Human Services - Cosmetology

In order for a student to receive CTE endorsement, **they must successfully complete a coherent sequence of 3 or more course for 4 or more credits within that endorsement area while observing all prerequisites**; the last course within the sequence must be an advanced course.

Year One:

- Introduction to Cosmetology (1 credit)

Year Two:

- Principles of Cosmetology Design and Color Theory (1 credit)

Year Three:

- Cosmetology I and Lab (advanced course for 3 credits)

Year Four:

- Cosmetology II and Lab (advanced course for 3 credits)

NOTE: General electives that can be embedded in any of the CTE Endorsements:

- Professional Communications for .5 credit
- Dollars and Sense for .5 credit
- General Employability Skills for 1 credit

Information Technology

In order for a student to receive CTE endorsement, **they must successfully complete a coherent sequence of 3 or more course for 4 or more credits within that endorsement area while observing all prerequisites**; the last course within the sequence must be an advanced course.

Information Technology I Endorsement Pathway

Year One:

- Principles of Information Technology (1 credit)

Year Two:

- Dual Credit Computer Maintenance and Lab (2 credits)

Year Three:

- Dual Credit Networking and Lab (advanced course for 2 credits)

Year Four:

- Dual Credit Computer Technician Practicum (advanced course for 2 credits)

Information Technology II Endorsement Pathway

Year One:

- Principles of Cybersecurity (1 credit)

Year Two:

- New Course for 2020-2021 (1 credit)

Year Three:

- New Course for 2021-2022 (advanced course for 1 credit)

Year Four:

- New Course for 2022-2023 (advanced course for 1 credit)

NOTE: General electives that can be embedded in any of the CTE Endorsements:

- Professional Communications for .5 credit
- Dollars and Sense for .5 credit
- General Employability Skills for 1 credit

Law, Public Safety, Corrections, and Security

In order for a student to receive CTE endorsement, **they must successfully complete a coherent sequence of 3 or more course for 4 or more credits within that endorsement area while observing all prerequisites**; the last course within the sequence must be an advanced course.

Year One:

- Principles of Law, Public Safety, Corrections, and Security (1 credit)

Year Two:

- Dual Credit Law Enforcement I (1 credit)

Year Three:

- Dual Credit Court Systems and Practices (advanced course for 1 credit)

Year Four (choose one, two or three courses):

- Practicum in Law, Public Safety, Corrections, and Security (EMT Option) advanced course for 2 credits)
- AND/OR: Dual Credit Criminal Investigation (advanced course for 1 credit)
- AND/OR: Forensic Science (advanced course for 1 credit)

NOTE: General electives that can be embedded in any of the CTE Endorsements:

- Professional Communications for .5 credit
- Dollars and Sense for .5 credit
- General Employability Skills for 1 credit

Manufacturing

In order for a student to receive CTE endorsement, **they must successfully complete a coherent sequence of 3 or more course for 4 or more credits within that endorsement area while observing all prerequisites**; the last course within the sequence must be an advanced course.

Year One:

- Principles of Agriculture, Food, and Natural Resources – Mechanical (see the Agriculture Cluster) (1 credit)

Year Two:

- Introduction to Welding (1 credit)

Year Three:

- Dual Credit Welding I (advanced course for 2 credits)

Year Four:

- Dual Credit Welding II and Welding II Lab (advanced course for 3 credits)

NOTE: General electives that can be embedded in any of the CTE Endorsements:

- Professional Communications for .5 credit
- Dollars and Sense for .5 credit
- General Employability Skills for 1 credit

Science, Technology, Engineering and Mathematics (STEM)

In order for a student to receive CTE endorsement, **they must successfully complete a coherent sequence of 3 or more course for 4 or more credits within that endorsement area while observing all prerequisites**; the last course within the sequence must be an advanced course.

STEM General Endorsement Pathway

Year One:

- Principles of Applied Engineering (1 credit)

Year Two:

- Principles of Technology (1 credit) (Science Grad Credit)

Year Three:

- Robotics I (1 credit)

Year Four (choose one or both):

- Robotics II (advanced course for 1 credit) (Math Grad Credit)
- Engineering Math (advanced course for 1 credit) (Math Grad Credit)

STEM PLTW Endorsement Pathway

Year One:

- Introduction to Engineering Design (1 credit)

Year Two:

- Engineering Science (1 credit) (Science Grad Credit)

Year Three:

- Digital Electronics (advanced course for 1 credit) (Math Grad Credit)

Year Four:

- Engineering Design and Development (advanced course for 1 credit)

NOTE: General electives that can be embedded in any of the CTE Endorsements:

- Professional Communications for .5 credit
- Dollars and Sense for .5 credit
- General Employability Skills for 1 credit

Transportation, Distribution, and Logistics

In order for a student to receive CTE endorsement, **they must successfully complete a coherent sequence of 3 or more course for 4 or more credits within that endorsement area while observing all prerequisites**; the last course within the sequence must be an advanced course.

Year One:

- Introduction to Transportation Technology (.5 credit), plus option of Transportation Data Entry (.5 credit)

Year Two:

- Dual Credit Automotive Basics (1 credit)

Year Three:

- Dual Credit Automotive Technology I – Maintenance and Light Repair (advanced course for 2 credits)

Year Four:

- Dual Credit Automotive Technology II – Automotive Service (advanced course for 2 credits)

NOTE: General electives that can be embedded in any of the CTE Endorsements:

- Professional Communications for .5 credit
- Dollars and Sense for .5 credit
- General Employability Skills for 1 credit