

Arts & Humanities Endorsement

A student may earn an Arts and Humanities Endorsement by completing foundation and general endorsement requirements, including an additional math and science credit, and satisfying the endorsement coursework.

Option	Cluster	Available Courses (credits earned)
Option A	Foreign Language	All courses required: Spanish I (1) Spanish 11 (1) Spanish 111 (1) Spanish IV (1)
Option B	Fine Arts Combination- Coherent sequence of 4 credits by selecting courses from 1 or 2 categories of fine arts.	Select 4 courses: Art I Art II Art II Drawing Art III Art IV
		Select 4 courses: Choral Music I Choral Music II Choral Music III Choral Music IV Show Choir I Show Choir II Show Choir III Show Choir IV
		Select 4 courses: Band I Band II Band III Band IV Jazz Band I Jazz Band II Jazz Band III Jazz Band IV
		Select 4 courses: Theater Arts I Theater Arts II Theater Arts III Theater Arts IV Technical Theater I Technical Theater II Technical Theater III

Public Service Endorsement

A student may earn a Public Service Endorsement by completing foundation and general endorsement requirements, including an additional math and science credit, and satisfying the endorsement coursework.

Select 4 or more credits in one or two clusters. One course must be an advanced (* or L)course.		
Career Cluster	Program of Study	Available Courses (credits earned)
Education & Training	Early Learning/Teaching & Training	Principles of Education and Training (1) Principles of Human Services (1) Child Development ^L (1) Instructional Practices [*] (2) Practicum in Education & Training ^{*A} (2)
Human Services	Family & Community Services	Principles of Human Services (1) Dollars and Sense (.5) Lifetime Nutrition and Wellness (.5) Child Development ^L (1)
Health Science	Health Informatics (Also satisfies STEM endorsement)	Principles of Health Science (1) Medical Terminology (1) Business Information Management IL (1)
	Healthcare Therapeutic (also satisfies STEM endorsement)	Principles of Health Science (1) Medical Terminology ^{DC} (1) Health Science Theory ^P (1) Anatomy and Physiology ^{*DC} (1) Practicum in Health Science ^{*A} (2) - CNA Program Practicum in Health Science ^{*A} (2) – Pharmacy Tech

*State Advanced Course ^LLocal Advanced Course ^AApplication Required ^PRequired Prerequisites ^{DC} Dual Credit Course

Endorsement Course Summary	
Entry Level Courses for Clusters	Principles of Education and Training Principles of Human Services Principles of Health Science
Advanced Courses	Health Science Theory Anatomy and Physiology Child Development ^L Instructional Practices Career Preparation - When work experience is in student career cluster. Practicum in Health Science

Multidisciplinary Studies Endorsement

A student may earn a Multidisciplinary Studies Endorsement by completing foundation and general endorsement requirements, including an additional math and science credit, and satisfying the endorsement coursework.

Option	Cluster	Available Courses (credits earned)
Option A	<p>Advanced Courses Select 4 courses from within ONE of the following endorsement areas.</p>	<p>STEM Endorsement</p> <ul style="list-style-type: none"> • Robotics II • Scientific Research & Design • Computer Science II • Precalculus • AP AB Calculus • Chemistry • Physics • AP Biology • AP Chemistry <p>Business & Industry Endorsement</p> <ul style="list-style-type: none"> • Veterinary MedicineP • Advanced Animal ScienceP • livestock Production • Ag Structures & Design Fabrication • Practicum in AFNRP • Horticulture Science • Floral Design I • Advanced Floral Design • Audio/Video Production W • Fashion Design II • Securities and Investments • Business ManagementA • Advanced Culinary Arts • Social Media Marketing/ Advertising • Automotive Technology IIP • Career PreparationA • Debate III • Debate IV • Newspaper III • Newspaper IV • Yearbook III • Yearbook IV • Practicum in Entrepreneurship • Practicum in Marketing • Practicum in Graphic Design & Illustration • Practicum in A/V <p>Arts & Humanities Endorsement</p> <ul style="list-style-type: none"> • Art III • Art IV • Band III • Band IV • Spanish III • Spanish IV

		<ul style="list-style-type: none"> English III English IV Public Services Endorsement <ul style="list-style-type: none"> Instructional Practices Health Science Theory Anatomy and Physiology Practicum in Health Science^P Career Preparation
Option B	Foundation Subject Areas Select 4 credits in each of the foundation subject areas; including English IV and Chemistry and/or Physics.	English <ul style="list-style-type: none"> English I English II English III English IV Mathematics <ul style="list-style-type: none"> Algebra I Geometry Algebra II Select an advanced math course Science <ul style="list-style-type: none"> IPC Biology Chemistry or Physics Select an advanced science course Social Studies <ul style="list-style-type: none"> World History World Geography US History Government (.5)/Economics (.5)
Option C	AP/Dual Credit Select 4 credits in AP/Dual Credit.	PreCalculus ^{DC} AP Calculus AB AP Biology AP Chemistry AP Physics US History ^{DC} Government ^{DC} Economics ^{DC} Statistics ^{DC} English 111 ^{DC} AP English III English IV ^{DC} English IV AP

*Advanced Course

^AApplication Required

^PRequired Prerequisites

^{DC}Dual Credit Course

STEM Endorsement

A student may earn a STEM Endorsement by completing foundation and general endorsement requirements, including Algebra II, Chemistry, and one of the following options:

Option	Cluster	Required Courses
Option A	STEM	Algebra II Chemistry Physics Pick 4 courses: Principles of Applied Engineering Engineering Design & Presentation I (Robotics I) ^{*P} Engineering Design & Problem Solving (Robotics II) ^{*P} Scientific Research & Design ^{*P} Computer Science I ^P Computer Science II ^{*P}
Option C	Mathematics	Algebra II Chemistry Physics Pick 2 courses: Pre-Calculus AP Calculus AB Pre-Calculus ^{DC} Statistics ^{DC} Pick 1 course: Chemistry AP Biology AP Physics AP Anatomy & Physiology ^{DC}
Option D	Science	Algebra II Chemistry Physics Pick 2 courses: Chemistry AP Biology AP Physics AP Anatomy & Physiology ^{DC} Pick 1 course: Pre-Calculus AP Calculus AB Pre-Calculus ^{DC} Statistics ^{DC}
Option E	Combination	Algebra II Chemistry Physics Pick 3 additional credits from no more than two of the options listed above.

*Advanced Course

^AApplication Required

^PRequired Prerequisites

^{DC}Dual Credit Course

Business & Industry Endorsement

A student may earn a Business and Industry Endorsement by completing foundation and general endorsement requirements, including an additional math and science credit, and satisfying the endorsement coursework.

Select 4 or more credits in one or two clusters. One course must be an advance (* or ^L) course.		
Career Cluster	Program of Study	Available Courses (credits earned)
Ag, Food, and Natural Resources	Animal Science	Principles of Agriculture (1) Small Animal Management (.5) Equine Science (.5) Livestock Production* (1) Advanced Animal Science* (1) Veterinary Medical* ^P (1) Practicum in Agriculture* ^{PA} (2) – CVA Program
	Applied Agriculture Engineering	Principles of Agriculture (1) Ag Mechanics & Metal Technologies (1) Ag Structures & Design Fabrication* (1) Practicum in Agriculture* ^{PA} (2) – Welding Program
	Plant Science	Principles of Agriculture (1) Floral Design* (1) Horticulture Science* (1) Advanced Floral Design* (1)
Architecture & Construction	Electrical	Principles of Construction (1) Electrical Technology I (1) Electrical Technology II (2)
	Plumbing & Pipefitting	Plumbing Technology I (1)
Design & Multimedia Arts	Design & Multimedia Arts	Principles of Arts, AV Technology, and Communications (1) Digital Media (1) Digital Audio Technology I (1) – Sports & Radio Broadcasting Graphic Design & Illustration I (1) Graphic Design & Illustration II* (1) Fashion Design I (1) Fashion Design II* (1) Practicum in Graphic Design & Illustration* ^A (2) Practicum in Entrepreneurship* ^A (2) Career Preparation* ^A (2)
	Digital Communications	Principles of Arts, AV Technology, and Communications (1) Audio/Video Production I (1) Audio/Video Production II* (2) Practicum in Audio/Video Production* ^A (2)
Business, Marketing, and Finance	Accounting & Financial Services	Principles of BMF (1) Business Information Management ^L (1) Accounting I (1) Accounting II (1) Securities and Investments* (1) Practicum in Entrepreneurship* ^A (2) Career Preparation* ^A (2)
	Business Management	Principles of BMF (1) Business Information Management ^L (1) Business Law ^L (1) Business Management* (1) Practicum in Business Management* ^A (2) Practicum in Entrepreneurship* ^A (2) Career Preparation* ^A (2)
	Entrepreneurship	Principles of BMF (1) Entrepreneurship (1) Practicum in Entrepreneurship* ^A (2) Career Preparation* ^A (2)
	Marketing & Sales	Principles of BMF (1) Sports & Entertainment Marketing I (.5) Sports & Entertainment Marketing II (.5) Social Media Marketing* (.5) Advertising* (.5) Career Preparation* ^A (2) Practicum in Entrepreneurship* ^A (2)

		Practicum in Marketing ^{*A} (2)
Hospitality & Tourism	Culinary Arts	Principles of Hospitality and Tourism (1) Introduction to Culinary Arts (1) Culinary Arts ^P (2) Advanced Culinary Arts ^{*P} (2) Practicum in Entrepreneurship ^{*A} (2)
Information Technology (also satisfies a STEM endorsement)	Networking Systems	Computer Science I (1) Career Preparation ^{*A} (2)
Transportation, Distribution, and Logistics	Automotive	Automotive Technology I ^{DC} (2) Automotive Technology II ^{DC} (2) Career Preparation ^{*A} (2)

Non-CTE Clusters

Students must have 4 English elective credits to include 3 levels of one of the following programs.

Journalism	Yearbook	Yearbook 1 (1) Yearbook II (1) Yearbook III (1)
	Newspaper	Newspaper I (1) Newspaper II (1) Newspaper III (1)
	Debate	Debate I (1) Debate II (1) Debate III(1)

*State Advanced Course ^LLocal Advanced Course ^AApplication Required ^PRequired Prerequisites ^{DC} Dual Credit Course

Endorsement Course Summary

Entry Level Courses for Clusters	Principles of Ag, Food, and Natural Resources (AFNR) Principles of Arts, AV Technology, and Communications	Principles of Information Technology (PIT) Principles of Construction Principles of Hospitality and Tourism Principles of Business, Marketing and Finance (BMF)
Advanced Courses	Livestock Production Advanced Animal Science Veterinary Medical Practicum in AFNR Ag Structures & Design Fabrication Floral Design Advanced Floral Design Horticulture Science Graphic Design & Illustration II Fashion Design II Career Preparation – When work experience is in student career cluster.	Audio/Video Production II Business Information Management Business Law Social Media Marketing Advertising Securities and Investments Business Management Advanced Culinary Arts Automotive Technology II Practicum in Entrepreneurship Practicum in Marketing Practicum in Graphic Design & Illustration Practicum in A/V Production