

## Career and Technical Education (CTE) Programs of Study



### Quick Reference Guide

This quick reference guide identifies the required classes only for each CTE Program of Study. Other supporting classes within the same **career cluster** may also be available. **Check the course description guide for career cluster details.**

CTE Program of Study	Location	9th Grade	10th Grade	11th Grade	12th Grade
<b><u>Agriculture and Natural Resources</u></b>					
<b>Animal Science</b>	KHS	Intro to Agriculture (2 Sem)	DC Ag Zoology/Animal. Sci. Nutr (2 Sem)	DC Livestock Management (2 Sem)	Adv. Animal Science (1 sem)
<b>Plant Science</b>	KHS	Intro to Agriculture (2 Sem)	DC Ag Plant / Soil Hort Sci (2 Sem)	Ag Landscape Design (1 Sem) Ag Greenhouse Management (1Sem)	Ag Veterinary Science (1 Sem)
<b>Ag Mechanics/Welding</b>	KHS	Intro to Agriculture (2 Sem)	Intro to Ag Mechanics/Welding (2 Sem)	Welding 2 (2 Sem)	<b>Capstone:</b> Advanced Ag Mechanics / Ag Fabrication (2 Sem)
Agriculture Cluster Courses (Grades 10-12) (See Prerequisites in Course Guide)					
	KHS	<b>Ag Personal Skills (1sem)</b> (Meets Speech Graduation Requirement) <b>DC Ag Business Economics (1 sem)</b> (Meets Economics Graduation Requirement)	<b>Ag Equine Science (1 sem)</b> <b>DC Food Science (1 sem)</b> Grades (11-12)	<b>Ag Floral Design and Marketing (1 Sem)</b> <b>Advanced Ag Floral Design (1 Sem)</b>	<b>Ag Structures/ Small Engines (2 Sem)</b> <b>OE Small Engines (1 sem)</b>
<b><u>Business/Marketing – Graphic Design/Communication</u></b>					
<b>HSB -Business, Marketing, and Management</b>	KHS	Business Leadership (1 Sem) Wealth Management (1 Sem) <sup>1</sup> Word, PowerPoint (1sem)	Principles of Business (1 Sem) Business Economics (1 Sem) <sup>1</sup> Excel and Access (1 Sem)	Principles of Marketing (1 Sem) Principles of Finance (1 Sem)	Principles of Management (1 Sem) <b>Capstone:</b> Business Strategies (1 Sem)
<b>Graphic Design/Communication</b>	KHS	Intro to Media Tech (1 Sem)	<sup>1</sup> Graphic Design 1 (2 Sem)	<sup>1</sup> Graphic Design 2 (2 Sem)	<sup>1</sup> <b>Capstone:</b> Graphic Design 3 (2 Sem)
<b>Administrative Assistant</b>	KHS	<sup>1</sup> Word, PowerPoint (1 Sem) Intro to Media Tech (1Sem)	<sup>1</sup> Excel and Access (1 Sem) Principles of Business (1 Sem)	Accounting (1 sem)	<sup>1</sup> <b>Capstone:</b> Business Communications (2 Sem)

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<b>Engineering &amp; Technology</b>					
<b>Pre-Engineering &amp; Architecture</b> (Collaboration with West Ada)	KHS/ SFHS/ RC	Intro to Engineering Design (IED) (2 Sem) @ KHS	Principles of Engineering (POE) (2 Sem) @ KHS	Digital Electronics (2 sem) @ SFHS <b>or</b> Civil Engineering and Architecture (2 Sem) @ RC <b>or</b> Computer Integrated Manufacturing (2 sem) @ RC	Aerospace Engineering (2 sem) @ RC and <b>Capstone:</b> Engineering Design and Development (EDD) (2 Sem) @ RC (Collaboration with West Ada)
<b>Computer Science - Programming</b>	KHS	Intro to Computer Systems (1 Sem)	<sup>1</sup> DC Programming Fundamentals (2 Sem)	Computer Science Principles 1 (2 Sem)	<b>Capstone:</b> Computer Sci Principles 2 (2 Sem)
<b>I.T. Computer/ Network Support</b>	KHS	Intro to Computer Systems (1 Sem)	<sup>1</sup> Computer Support Essentials 1 (2 Sem)	<sup>1</sup> Computer Support 2/ Networking (2 Sem)	<sup>1,2</sup> <b>Capstone:</b> Computer Support 3 (2 Sem)
<b>Media Production/ Broadcasting</b>	KHS	Intro to Media Tech (1 Sem)	<sup>1</sup> Broadcasting Video Technology 1 (2 Sem)	<sup>1</sup> Broadcasting Video Technology 2 (2 Sem)	<sup>1</sup> <b>Capstone:</b> Broadcasting Video Tech 3 (2 Sem)
<b>Family Consumer Sciences and Human Services</b>					
<b>Culinary Arts</b>	KHS	Fundamentals of Essential Living (9 <sup>th</sup> Only)	*Foods/Nutrition (1sem) → Culinary 1 (2 Sem)→ <b>Capstone:</b> Culinary 2 (2 Sem)  *Foods/Nutrition can be skipped if student has taken Fund of Essential Living		
<b>Early Childhood and K-12 Education</b>	KHS	Fundamentals of Essential Living (9 <sup>th</sup> Only)	Parenting and Childhood Development (1 Sem) Working with Children (1 Sem)	Educational Assistant (2 Sem)	Work-Based Learning (2 Sem)

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<b>Health Professions and Public Safety</b>					
<b>Emergency Medical Technician (EMT)</b>	SFHS	Intro to Health Professions (1 Sem) (Freshman only)	DC Fundamentals of Health Professions (2 Sem)	DC Medical Terminology (1 Sem) DC Anatomy 1 (2 Sem)  DC Sports Medicine 1 (2 Sem) <i>Optional/Recommended</i>	<sup>1</sup> EMT-Basic (4 Sem)  DC Anatomy 2 (2 Sem) <b>Optional/Recommended</b>
<b>Sports Medicine</b>	SFHS	Intro to Health Professions (1 Sem) (Freshman only)	DC Fundamentals of Health Professions (2 Sem)	DC Medical Terminology (1 Sem) DC Sports Medicine 1 (2 Sem) DC Anatomy 1 (2 Sem)	DC Advanced Sports Medicine (2 Sem)
<b>Nursing Assistant (CNA)</b>	SFHS	Intro to Health Professions (1 Sem) (Freshman only)	DC Fundamentals of Health Professions (2 Sem)	DC Medical Terminology (1 Sem)  Conceptual Anatomy (1 Sem) or DC Anatomy 1 (2 Sem)	<sup>1</sup> Certified Nursing Assistant (2 Sem)
<b>Dental Assistant</b>	SFHS	Intro to Health Professions (1 Sem) (Freshman only)	DC Fundamentals of Health Professions (2 Sem)	DC Medical Terminology (1 Sem) Conceptual Anatomy (1 Sem) or DC Anatomy 1(2 Sem)	<sup>1</sup> Dental Assisting (4 Sem)
<b>Pharmacy Technician (Collaboration with West Ada)</b>	SFHS And RC	Intro to Health Professions (1 Sem) (Freshman only)	DC Fundamentals of Health Professions (2 Sem)	DC Medical Terminology (1 Sem)  DC Anatomy 1 (2 Sem) or Conceptual Anatomy (1 Sem)	<sup>1</sup> Pharmacy Tech (2 Sem) @ RC <b>(Collaboration with West Ada)</b>
<b>Law Enforcement (Collaboration with West Ada)</b>	RC		Orientation to Police, Fire, and Emergency Services @ RC (1 Sem)	Law Enforcement, Detention and Corrections I @ RC (4 periods-2 each Semester)	Law Enforcement, Detention and Corrections II @ RC (4 periods-2 each Semester)
<b>Fire Services (Collaboration with West Ada)</b>	RC	Intro to Health Professions (1 Sem) @ KHS	Orientation to Police, Fire, and Emergency Services (1 Sem) @ RC	Fire Services I (4 periods-2 each Semester) @ RC	Fire Services II (4 periods-2 each Semester)@ RC

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<b>Trades and Industry</b>					
<b>Welding Fabrication</b>	KHS	Choose from: Intro To Agriculture (2 Sem) Intro To Vehicle/Construction Trades (2 sem)	Welding 1 (2 Sem)	<sup>1</sup> Welding 2 (2 Sem)	<sup>1,2</sup> <b>Capstone:</b> Advanced Ag Mechanics/Ag Fabrication (2 Sem)
<b>Electronics Technology</b>	SFHS	Intro To Vehicle/Construction Trades (2 sem)	Electronics Technology 1 (2 Sem)	<sup>1</sup> Electronics Technology 2 (2 Sem)	<sup>2</sup> <b>Capstone:</b> Digital Electronics (2 Sem)
<b>Automotive Technology</b>	SFHS	Intro To Vehicle/Construction Trades (2 Sem) (Freshmen Only)	Intro to Auto/ Diesel 1 (2 Sem)	<sup>1</sup> Auto Tech 2 (2 sem)	<b>Capstone:</b> Auto Tech 3 (2 sem)
<b>Diesel Technology</b>	SFHS	Intro To Vehicle/Construction Trades (2 sem) (Freshmen Only)	Intro to Auto/Diesel 1 (2 sem)	<sup>1</sup> Diesel Technology 2 (2 sem)	<b>Capstone:</b> Diesel Technology 3 (2 sem)
<b>Construction Trades</b>	SFHS	Intro To Vehicle/Construction Trades (2 sem) (Freshmen Only)	Construction Trades 1 (2 sem)	Construction Trades 2 (2 sem)	<b>Capstone:</b> Construction Trades 3 (2 sem)

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