

Agricultural Education Pathways

Pathways	Agribusiness	Animal Science Systems	Horticulture and Plant Science Systems
9th Grade Courses	Principles of Agriculture	Principles of Agriculture	Principles of Agriculture
10th Grade Courses	Agriscience	Agriscience	Agriscience
11th Grade Courses	-Agriculture Sales and Marketing -Agriculture Employability -Agriculture Communications	-Small Animal Technology -Veterinary Science	-Greenhouse Technology -Floriculture and Floral Design
12th Grade Courses	Greenhouse Technology OR Agriculture Co-op	Agriculture Employability OR Agriculture Co-op	Agriculture Sales and Marketing OR Agriculture Employability OR Agriculture Co-op
Industry Certification	N/A	ICEV	ICEV
Possible Careers	*Agricultural Engineer *Welder *Mechanical Engineer *Diesel Technician *Electrical Engineer *Heavy Equipment Technician *Farm Equipment Technician *Small Engine Mechanic	*Veterinarian *Animal Scientist *Marine Biologist *Zoologist *Horse Trainer *Animal Breeder *Farmer *Veterinary Technician	*Horticulturist *Agronomist *Landscape Architect *Farmer Scientist *Nursery / Greenhouse Grower *Botanist

Business and Marketing Education

Pathways	Administrative Support	E-Commerce	Hospitality, Travel, Tourism, and Recreation	Management Entrepreneurship	Marketing
9th Grade Courses	Business and Marketing Essentials	Business and Marketing Essentials	Marketing Principles	Business and Marketing Essentials	Business and Marketing Essentials
10th Grade Courses	Digital Literacy	Marketing Principles	Foods and Nutrition OR FCS Essentials	Digital Literacy	Marketing Principles
11th Grade Courses	-Medical Terminology -Emergency Procedures -Introduction to Management	-Digital Literacy -Principles of Entrepreneurship	-Principles of Entrepreneurship -Principles of Hospitality	-Principles of Entrepreneurship -Marketing Principles -Intro to management	Marketing Applications
12th Grade Courses	-Personal Finance -Business Co-Op	-Personal Finance -Business Co-Op	-Advanced Foods and Nutrition -Marketing Co-op	-Personal Finance -Business Co-Op	-Personal Finance -Principles of Entrepreneurship -Marketing Co-op
Industry Certification	MOS (Excel, P.P., Word) AND ASK Business	MOS (Excel, P.P., Word) AND ASK OR ASK Marketing (alone)	CHTMP ASK (marketing) ServSafe	ASK	ASK: Fundamental Marketing concepts
Possible Careers	*Administrative Assistant *Event Planner *Healthcare Administrator *Health Records Professional *Human Resources Specialist *Insurance Claim Adjuster *Legal Secretary *Management Consultant *Medical Assistant *Office Manager *Paralegal *Proofreader *Travel Agent	*Communication Specialist *E-Business Consultant *Economic Development Officer *Media Buyer *Retail Buyer *Retail Salesperson *Sales Representative *Web Developer *Webmaster *Website Designer	*Travel Agent * Manager (restaurant /hotel/Resort) *Event Planner *Spa Manager *Sports Event Manager *Wedding Coordinator *Caterer *Executive Chef *Group Sales *Tour Guide *Conference and Convention Center Worker /Manager *Marketing for a City or Company *Theme Park Marketer/Manager	*Association Manager *Bed and Breakfast Proprietor *Entrepreneur *Event Planner *Hotel/Motel Manager *Insurance Agent *Insurance Claims Adjuster *Property Manager *Volunteer Manager	*Advertising Account Executive * Customer Service Agent *Fashion Retailer *Market Research Analyst *Public Relations Specialist *Purchaser *Set Designer *Sports Marketer *Telemarketer *Travel Agent

Engineering Pathways

Pathways	Civil Engineering	Electrical Electronics Engineering	Flight and Aeronautics	Mechanical Engineering
9th Grade Courses	Engineering I	Engineering I	Intro to Aerospace & Aviation	Engineering I
10th Grade Courses	Engineering II	Engineering II	Aviation I	Engineering II
11th Grade Courses	-AP Computer Science OR -Civil Engineering (DC PLW 225)	Electrical/Electronics Engineering (DC PLW 150)	Aviation II (AVN 170)	-AP Computer Science -Electrical/Electronics Engineering (DC PLW 150) -Robotics Engineering (VEX)
12th Grade Courses	-Engineering Capstone -Engineering Co-op	-AP Computer Science OR -Engineering Capstone	Aviation Capstone (DC AVN 150) Commercial Aviation (DC AVN 250)	-Mechanical Engineering (DC PLW 250) -Engineering Capstone -Engineering Co-op
Industry Certification	Autodesk Revit	Autodesk Inventor	FAA- Remote Pilot Cert	Autodesk Inventor
Possible Careers	*Civil Engineer Inventor *Agricultural Engineer *Environmental Engineer *Mining Engineer *Engineering Tech *Civil Engineering Tech * Land Surveyor *Geo-Technical Engineer *Public Works *Military Engineer *Aerospace Engineer *Forensic Engineer *Urban Planning	*Engineering Tech Ed Teacher *Electronics Engineer *Electrical Engineer *Computer Hardware Engineer *Electronics Engineering Tech *Engineering Tech *Electrical Engineering Tech *Controls Engineer *Robotics Engineer *Sales Engineer *Instrumentation Engineer *Consulting Engineer	*Aerospace Engineer *Aerospace Technician *Private Pilot *Commercial Pilot *Crew Chief * Flight Instructor * Commercial Aviator * Military Aviator *Military Navigator *Drone Pilot *Drone Land Surveyor *Drone Real Estate Photographer	*Engineering Technology Education Teacher *Mechanical Engineer *Mechanical Engineering Technician *Industrial Designer *Engineering Tech *Industrial Engineer *Aerospace/Aviation Design *Biosystems Engineer *Engineering Technology *Manufacturing Manager *Industrial Engineering Tech

Family and Consumer Sciences

Pathways	Consumer and Family Services	Culinary and Food Services	Early Childhood Education	Fashion and Interior Design	Hospitality, Travel, Tourism, and Recreation
9th Grade Courses	FCS Essentials	-FCS Essentials -Introduction to Culinary	FCS Essentials	FCS Essentials	FCS Essentials OR Foods and Nutrition
10th Grade Courses	Foods and Nutrition	-Advanced Foods and Nutrition -Introduction to Culinary OR -Foods and Nutrition	-Relationships -Parenting	Fashion and Interior Design I	-Marketing Principles -Principles of Hospitality
11th Grade Courses	-Relationships -Parenting	Culinary I (CUL 125)	Early Lifespan Development	Fashion and Interior Design II	Principles of Entrepreneurship
12th Grade Courses	-Money Skills for Math -Co-op	-Culinary Arts II (CUL 105) -Special topics -Culinary Internship	Child Development Services I/II -Principles of Teaching -ECE Co-op	-Fashion and Interior Design III -Fashion Co-Op -Money Skills for Math	-Advanced Foods and Nutrition OR -Marketing Co-op
Industry Certification	AAFCS PrePac	ServSafe Food Manager's Credential OR AAFCS PrePac OR ProStart Certificate	-CCCC -Orientation Training -Pediatric Head Trauma OR CDA	AAFCS PrePac	CHTMP ASK (marketing) ServSafe
Possible Careers	*Social Worker *Abuse/Crisis Counselor *Credit Counselor *Cooperative Extension Agent *Family and Consumer Scientist *Genetic Counselor *Gerontologist *Human Resources *Leisure Activities Counselor *Life Coach *Marriage and Family Therapist *Mental Health Professional *Lobbyist	*Chef/Cook *Baker *Entrepreneur *Food Inspector *Butcher *Caterer *Quality Control *Food Critic *Food Stylist *Food Photographer	*Early Childhood Educator *Psychologist *Nanny *Pediatrician *Midwife *STARS Coordinator *Cabinet of Health and Family Services Licensing *Daycare Inspector/Rater *First Steps Consultant	*Fashion Designer *Interior Designer *Retail Buyer *Clothing Manufacturer *Furniture Designer *Model *Image Consultant *Critic *Graphic Designer *Costume Designer *Visual Merchandiser	*Travel Agent *Manager (restaurant/hotel/Resort) *Event Planner *Spa Manager *Sports Event Manager *Wedding Coordinator *Caterer *Executive Chef *Group Sales *Tour Guide *Conference and Convention Center Worker/Manager *Marketing for a City or Company *Theme Park Marketer/Manager

Health Science

Pathways	EKG Technology /Technician	Pharmacy Technician	Phlebotomy Technician	Pre-Nursing	Medical Administrative Assisting
9th Grade Courses	Principles of Health Science (DC HST 102)	Principles of Health Science (DC HST 102)	Principles of Health Science (DC HST 102)	Principles of Health Science (DC HST 102)	Principles of Health Science (DC HST 102)
10th Grade Courses	-Medical Terminology (DC AHS 115) -Emergency Procedures	-Medical Terminology (DC AHS 115) -Emergency Procedures	-Medical Terminology (DC AHS 115) -Emergency Procedures	-Medical Terminology (DC AHS 115) -Emergency Procedures	-Medical Terminology (DC AHS 115) -Emergency Procedures
11th Grade Courses	Anatomy/Body Structures	Anatomy/Body Structures	Anatomy/Body Structures	-Anatomy/Body Structures - Medicaid Nurse Aide	Medical Office Procedures
12th Grade Courses	-EKG Technology -Medical Math	Pharmacy Tech	Phlebotomy	-Medicaid Nurse Aide (NAA 100) -Advanced Nursing	Medical Administrative Internship
Industry Certification	NHA Certified EKG Technician	NHA Certified Pharmacy Technician	NHA certified Phlebotomy Technician	State Registered Nursing Assistant (SRNA)	-NHA Billing and Coding Specialist (CBCS) OR -NHA Certified Medical Administrative Assistant (CMAA)
Possible Careers	*EKG Technician *Diagnostic Medical Sonographer *Medical Assistant *Medical Lab Tech *Radiologist *Cardiac Monitor Technician. *Cardiographic Technician. *Rhythm Analysis Technician. *Telemetry Monitor Technician.	*Pharmacy Technician *Customer Service Representative. *Pharmacist.	*Medical Lab Tech *Phlebotomist *Medical Assistant	*Licensed Practical Nurse *Nurse *Nurse Practitioner *Nursing Assistant *Physician's Assistant *Doctor	*Medical office assistant *Medical office receptionist *Medical Records Clerk *Medical Billing Clerk *Customer Service Representative

John Hardin Career Pathways with Course Plans
and
Potential Careers Upon Completion
2023-2024

Computer Science

Pathways	Computer Programming	Web Development & Administration	Network Administration	Network Security	Information Support Services
9th Grade Courses	-Digital Literacy (optional) -AP Computer Science	-Digital Literacy	-Digital Literacy (optional) -Computer Hardware and Software Maintenance	Digital Literacy	Digital Literacy
10th Grade Courses	Webpage Development	Internet Technologies	Intro to Networking Concepts (odd years) -Computer Hardware and Software Maintenance	Computer Hardware and Software Maintenance	-Computer Hardware and Software Maintenance
11th Grade Courses	Cybersecurity (odd years)	Webpage Development (even years)	Internet Technologies	Introduction to Networking Concepts (odd years)	Internet Technologies
12th Grade Courses	-Computational Thinking -Computer Science Internship	-Computational Thinking -Computer Science Internship	-Computational Thinking -Computer Science Internship	-Cybersecurity -Computer Science Internship	-Help Desk Operations -Computer Science Internship
Industry Certification	Certiport IT Specialist - Java Certiport IT Specialist - Python CompTIA IT Fundamentals Certiport IT Specialist - Network Security	Certiport IT Specialist: HTML5 Application and development Java Script HTML and CSS	CompTIA Network + Certiport IT Specialist - Device Configuration and Management Certiport IT Specialist - NetworkingA Network +	CompTIA Security + CompTIA Network+ Certiport IT Specialist - Networking Certiport IT Specialist - Network Security Certiport IT Specialist - Device Configuration and Management ITSecurity +	Certiport Device configuration and management CompTIA IT Fundamentals CompTIA A+ Help Desk Institute Customer Service Representative
Possible Careers	*Computer Programmer *Computer Software Engineer *Database Developer *Computer Hardware Engineer *Computer Systems Analyst *Web Developer *Information Security Analyst *Computer Network Specialist *IT Project Manager	*IT Project Manager *Computer Animator *Cartoonist *Game Designer *Game Design Analyst *Webmaster *Web Developer *Website Designer	*Network Server Administrator *Support Team Member *Quality Assurance *System Analyst *Sales Representative *Technical Support Rep *Technical Writing Expert *Electronics Engineer *Hardware Engineer *System Administrator *Network Administrator *Microsoft Server Admin *Microsoft Server Support Team *Cisco Network Administrator *Cisco Engineer *Cisco Hardware Engineer *Cisco System Administrator	*Computer Network Specialist *Electronics Engineer *Computer Hardware Engineer *System Systems Technician *Quality Control Analyst	*Help Desk Maintenance rep *Information security analyst *Tech Support Specialist *Continuity Analyst *Computer Systems Manager *Data Processing Manager *Application Management

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Construction

JROTC

Law and Public Safety

Pathways	Building Construction Technology	Heavy Equipment Operator	Army JROTC	Fire Science and Firefighting	Law Enforcement Services
9th Grade Courses	Introduction to Construction Technology	Introduction to Construction Technology	JROTC I		Introduction to Criminal Justice
10th Grade Courses	Residential Maintenance Carpentry	TBD	JROTC II		Law Enforcement
11th Grade Courses	Residential HVAC or Interior Maintenance or Masonry or Wiring or Plumbing	TBD	JROTC III		Correctional Systems
12th Grade Courses	Residential HVAC or Interior Maintenance or Masonry or Wiring or Plumbing or Co-Op or Internship	TBD	-JROTC IV -JROTC V	All Courses at ECTC FRS 101, 102, 103, 104 and 204 *must meet benchmarks to take ENG 101 and math	-Criminal Investigation
Industry Certification	2 NCCER Tests OSHA 10	CDL License OR OSHA 10 and NCCER	JROTC 3 year Certificate of Training	Candidate Physical Ability Test or EMT Basic National Certification or Fire and Rescue Certification or First Responder Certification	First Responder State Certification or National Academies of Emergency Dispatch (NAED)
Possible Careers	*Bricklayer /Stonemason *Concrete Mason *Carpenter *Construction Manager *Construction Tradesperson *Cost Estimator *Drywall Installer *Electrician *Energy Auditor *Flooring Installer *Home Inspector *Plumber *Pipefitter *Production Woodworker *Property Manager *Solar Energy Tech *Building Superintendent	*Heavy equipment operator (excavator, backhoe, diggers, bulldozers, etc.) *Heavy equipment repair *construction building infrastructures projects (roads, bridges, and ports, *mining and timber removal	*Administrative Personnel *Construction Personnel *Electronic/Equipment Repair Personnel *Engineering, Science, And Technical Personnel *Healthcare Personnel *Media And Public Affairs Personnel *Transportation & Material-Handling Personnel	*Firefighter *Fire Investigator *Forest Firefighter *EMT *911 dispatch	*Correctional Officer *Crime Scene Investigator *Criminologist *Detective *Police Officer *Private Investigator *Probation/ Parole Officer *Security Guard

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**Manufacturing
Technology**

**Media
ARTS**

Transportation

Education

Pathways	Welder Entry Level	Cinematography and Video Production	Interactive Media	Automotive Maintenance and Light Repair Technician	Teaching and Learning
9th Grade Courses	----	Introduction to Media Arts	Introduction to Media Arts	---	The Learning Community (EDU 250)
10th Grade Courses	Blueprint Reading	Video Studio Fundamentals (FLM 112/140)	TBD	Basic Automotive Electricity	The Learner-Centered Classroom (EDU 260)
11th Grade Courses	Shielded Metal Arc Welding /Cutting Processes (WLD 120/121)	Studio Directing and Performance	TBD	Automotive Maintenance and Light Repair A	The Professional Educator (EDU 350)
12th Grade Courses	-Gas Metal Arc Welding - Gas Tungsten Arc Welding -Welding Internship	-Advanced Studio Production -Media Arts Internship	TBD	Automotive Maintenance and Light Repair B, C, and D	-Collaborative Clinical Experience (EDU 360) -A dual credit course in intended teaching discipline
Industry Certification	AWS-2F	Need 2 Adobe: Premiere Pro, After Effects, Photoshop	Adobe: After Effects, & photoshop Unity Certified User	ASE (MLR)	n/a
Possible Careers	*Combination Welder *Pipe Welder *Ironworker *Tungsten Inert Gas (TIG) Welder *Certified Welding Inspector (CWI) *Certified Welding Educator (CWE) *Welding Engineer *Structural Engineer *Mechanical Engineer	*Advertising Copywriter *Audio-Visual Technician *Broadcast Technician *Camera Operator *Director *Director of Photography *Film and TV Crew *Film Editor *Photographer *Photojournalist	*Multimedia Graphic Design *Media Manager *Animation *Video Editor *Web Designer *Digital Advertising *Digital Marketing *Social Media Specialist *Content Manager *Interface Designer *Concept Designer *User Experience Designer	*Automotive Service Technician *Auto Detailer *Automotive Recycler *Customer Service Representative (Service Writer/Advisor) *Dispatcher *Warranty Clerk *Automobile Salesperson *Service Manager	*Elementary Educator *Middle School Educator *Secondary Educator *Related Careers with advanced degree: *Counselor *Asst. Principal *Principal *Instructional Support

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Cosmetology

Apprentices

Early College

Pathways	Cosmetology	Apprenticeships	Early College
9th Grade Courses	Business and Marketing Essentials	Students start with appropriate pathway classes to prepare them for on the job learning.	-Must complete Alg I, Geometry and Alg II -ACT benchmarks in English (18), Math (22), Reading (20) -There is also an application to be filled out sophomore year before Christmas (deadline varies)
10th Grade Courses	-Marketing Principles		
11th Grade Courses	-Principles of Entrepreneurship -Intro to management	Available Apprenticeships: -Help Desk Tech (IT) -Diesel Mechanic (Auto) -Building Maintenance (Construction) -Child Development Specialist (ECE)	Academy (11th Grade): Students will take 30 hours of dual credit at EC3 with ECTC and EC3 professors/teachers. Classes operate on college schedule MW or TR classes. They follow the HCS calendar. Science labs are on ECTC campus.
12th Grade Courses	-Senior Year DC Cosmetology through Campbellsville University -\$500/semester -Can Use KEES after Graduation -Hours earned toward full cosmetology license		-For individualized options see your transition coach.
Industry Certification	Cosmetology License (earned post graduation once license hours are completed)	Journeyman Certification	College Readiness
Possible Careers	*Cosmetologist *Hair Stylist *Nail Tech *Make-up Artist *Esthetician *Barber	Students can apprentice with Hardin County Schools or Local businesses to become journeyman certified in a skill/trade by learning on the job in coordination with career pathway courses. Apprenticeships are paid and subject to availability.	All Careers Requiring /Preferring a College Degree