

Agricultural Education Pathways

Pathways	Agricultural Power Structural Technical Systems	Animal Science Systems	Horticulture and Plant Science Systems	Agribusiness Systems
9th Grade Courses	Principles of Agriculture	Principles of Agriculture	Principles of Agriculture	Principles of Agriculture
10th Grade Courses	Agriscience	Agriscience	Agriscience	Agriscience
11th Grade Courses	-Small Power and Equipment -Ag Structures and design	-Animal Science -Small Animal Technology	-Introduction to Greenhouse and Crop Production -Landscape and Turf Management	-Small Animal Technology -Greenhouse Technology -Agriculture Sales and Marketing -Agriculture Communications
12th Grade Courses	-Agriculture Construction Skills -Agriculture Co-op	-Equine Science -Veterinary Science -Agriculture Co-op	-Greenhouse Technology -Floriculture and Floral Design -Agriculture Sales and Marketing <u>OR</u> -Agriculture Co-op	-Agriculture Employability Skills -Agriculture Co-op
Industry Certification	ICEV	ICEV	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 *Landscape Architect *Nursery / Greenhouse Grower *Botanist	*Entrepreneur *Photojournalist *Agriculture Lawyer *Sales Representative *Independent Business Owner *Editor *Retail Salesperson *Auctioneer

Business and Marketing Education

Pathways	Accounting	Administrative Support	E-Commerce	Management Entrepreneurship	Hospitality, Travel, Tourism, and Recreation
9th Grade Courses	Business and Marketing Essentials	Business and Marketing Essentials	Digital Literacy -Business and Marketing Essentials	Business and Marketing Essentials	-Foods and Nutrition OR -FCS Essentials
10th Grade Courses	-Digital Literacy -Office Administration	Digital Literacy	Accounting and Finance Foundations	-Digital Literacy -Accounting and Finance Foundations	Principles of Hospitality
11th Grade Courses	-Accounting and Finance Foundations	-Office Administration -Medical Terminology	-Office Administration -Intro to Management	-Intro to Management	-Marketing Principles -Advanced Foods and Nutrition
12th Grade Courses	-Advanced Accounting -Personal Finance -Business Co-Op	-Personal Finance -Business Co-Op -Accounting	-Multimedia Publishing -Business Co-Op	-Personal Finance -Marketing Principles -Business Co-Op	Marketing Education Co-op
Industry Certification	MOS (Excel, P.P., Word) AND ASK	MOS (Excel, P.P., Word) AND ASK	MOS (Excel, P.P., Word) AND ASK	ASK	CHTMP
Possible Careers	*Account Manager *Accountant *Appraiser *Auditor *Bank Teller *Bookkeeper *Federal Agent *Forensic Accountant *Investment Advisor *Investment Banker *Loan Officer *Money Manager *Mortgage Broker *Statistician *Tax Preparer	*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	*Association Manager *Bed and Breakfast Proprietor *Entrepreneur *Event Planner *Hotel/Motel Manager *Insurance Agent *Insurance Claims Adjuster *Property Manager *Volunteer Manager	*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

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	-Civil Engineering	Electrical/Electronics Engineering	Aviation II	-Electrical/Electronics Engineering -Robotics Engineering (VEX)
12th Grade Courses	-Engineering Capstone	Engineering Capstone	Aviation Capstone	-Mechanical Engineering -Engineering Capstone
Industry Certification	Autodesk Revit	Autodesk Inventor	FAA- Remote Pilot Cert	Autodesk Inventor
Possible Careers	<ul style="list-style-type: none"> *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 	<ul style="list-style-type: none"> *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 	<ul style="list-style-type: none"> *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 	<ul style="list-style-type: none"> *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	Hospitality, Travel, Tourism, and Recreation
9th Grade Courses	FCS Essentials	-FCS Essentials -Introduction to Culinary	FCS Essentials	-Foods and Nutrition OR -FCS Essentials
10th Grade Courses	Foods and Nutrition	-Introduction to Culinary -Foods and Nutrition -Advanced Foods and Nutrition	-Relationships -Parenting	Principles of Hospitality
11th Grade Courses	-Relationships /Parenting	Culinary I and ServSafe	Early Lifespan Development	-Marketing Principles -Advanced Foods and Nutrition
12th Grade Courses	-Money Skills for Math -Relationships/Parenting -Co-op	-Culinary Arts II -Special topics -Culinary Internship	Child Development Services I/II -Co-op	Marketing Education 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	CHTMP
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	*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	Principles of Health Science	Principles of Health Science	Principles of Health Science	Principles of Health Science
10th Grade Courses	Medical Terminology /Emergency Procedures	Medical Terminology /Emergency Procedures	Medical Terminology /Emergency Procedures	Medical Terminology /Emergency Procedures	Medical Terminology /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 -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

Computer Science

Pathways	Computer Programming	Digital Design and Game Development	Network Administration	Network Security
9th Grade Courses	-Computer Literacy -Digital Literacy	Digital Literacy	Digital Literacy	Digital Literacy
10th Grade Courses	Introduction to Programming	Introduction to Programming	Computer Hardware and Software Maintenance	Computer Hardware and Software Maintenance
11th Grade Courses	Project-Based Programming	Game Design and Development Principles	Introduction to Networking Concepts	Introduction to Networking Concepts
12th Grade Courses	Information Technology Internship	Introduction to Digital 3D Game Graphics	-Information Technology Internship -MS Client/Server Configuration	-Security Fundamentals -Information Technology Internship
Industry Certification	MTA: 2 Exams Req'd- HTML5 App Dev, Intro to Programming using HTML and CSS or Java or Javascript or Python, Software Dev. Fund.	MTA: 2 Exams Req'd- HTML5 App Dev, Intro to Programming using HTML and CSS or Block Based or Javascript or Python, Software Dev. Fund.	MTA: 2 Exams Req'd- Mobility and Device , Windows Operating System, Windows Server Admin, Network Fundamentals, Cloud Fundamentals	-MTA: Security Fundamentals and -Comptia IT Fundamentals
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 Representative *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

Central Hardin Career Pathways with High School Course Plans
and
Potential Careers Upon Completion
2021-2022

Construction

JROTC

Law and Public Safety

Pathways	Electrical Construction Engineering	Residential Maintenance	Army JROTC	Fire Science and Firefighting	Law Enforcement Services
9th Grade Courses	Engineering I	Intro to Building and Apartment Maintenance	JROTC I		Introduction to Criminal Justice
10th Grade Courses	Engineering II	Residential Maintenance Carpentry	JROTC II		Law Enforcement
11th Grade Courses	Electrical/Electronic Engineering	Residential HVAC or Interior Maintenance or Masonry or Wiring or Plumbing	JROTC III		Correctional Systems
12th Grade Courses	Circuits I/II (ECTC) -Internship/co-op/ap prenticeship	Residential HVAC or Interior Maintenance or Masonry or Wiring or Plumbing or Co-Op or Internship	-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 -Criminal Law Co-op
Industry Certification	NCCER OSHA 10	2 NCCER Tests OSHA 10	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	*Electrical Engineer *Electrical Engineering Tech *Electrician	*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	*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	*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

Apprentices

Early College

Pathways	Welder Entry Level	Cinematography and Video Production	Automotive Maintenance & Light Repair Technician	Apprenticeships	Early College
9th Grade Courses		Introduction to Media Arts		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
10th Grade Courses	Basic Welding and Lab	Video Studio Fundamentals	Basic Automotive Electricity		
11th Grade Courses	Shielded Metal Arc Welding /Cutting Processes	Studio Directing and Performance	Automotive Maintenance and Light Repair A	Available Apprenticeships: -Help Desk Tech (IT) -Diesel Mechanic (Auto) -Building Maintenance (Construction) -Child Development Specialist (ECE)	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	-Gas Metal Arc Welding - Gas Tungsten Arc Welding -Welding Internship	-Advanced Studio Production -Media Arts Internship	Automotive Maintenance and Light Repair B, C, and D	-For individualized options see your transition coach.	Students will take 30 hours of dual credit at ECTC. They follow the ECTC calendar. Students that choose to enter the pathway their senior year can do so, there is an application for this as well.
Industry Certification	AWS-2F	Need 2 Adobe: Premiere Pro, After Effects, Photoshop	ASE (MLR)		College Readiness
Possible Careers	*Combination Welder *Pipe Welder *Ironworker *Tungsten Inert Gas (TIG) Welder *Certified Welding Inspector (CWI) *Certified Welding Educator *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 *Radio / Television Program Director	*Automotive Service Technician *Auto Detailer *Automotive Recycler *Customer Service Representative (Service Writer/Advisor) *Dispatcher *Warranty Clerk *Automobile Salesperson *Service Manager	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

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