

Career Pathways with High School Course Plans

and

Potential Careers Upon Completion

*North Hardin High School*

*2021 - 2022*



**HARDIN COUNTY SCHOOLS**

HELPING CHILDREN SUCCEED

## Agricultural Education Pathways

<b>Pathways</b>	<b>Agricultural Power Structural Technical Systems</b>	<b>Animal Science Systems</b>	<b>Horticulture and Plant Science Systems</b>
<b>9<sup>th</sup> Grade Courses</b>	Principles of Agriculture	Principles of Agriculture	Principles of Agriculture
<b>10<sup>th</sup> Grade Courses</b>	Agriscience	Agriscience	Agriscience
<b>11<sup>th</sup> Grade Courses</b>	Small Power and Equipment	-Animal Science -Small Animal Technology	Introduction to Greenhouse and Crop Production
<b>12<sup>th</sup> Grade Courses</b>	Agriculture Power and Machinery Operation	-Equine Science -Veterinary Science	-Greenhouse Technology -Floriculture and Floral Design
<b>Industry Certification</b>	ICEV	ICEV	ICEV
<b>Possible Careers</b>	*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

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**Business and Marketing Education**

Pathways	Accounting	Administrative Support	E-Commerce	Financial Services	Management Entrepreneurship	Marketing	Retail Services
<b>9<sup>th</sup> Grade Courses</b>	Business and Marketing Essentials	Business and Marketing Essentials	Business and Marketing Essentials	Business and Marketing Essentials	Business and Marketing Essentials	Business and Marketing Essentials	Marketing Principles
<b>10<sup>th</sup> Grade Courses</b>	Accounting	Digital Literacy	Marketing Principles	Marketing Principles	Digital Literacy	Marketing Principles	Retail Marketing
<b>11<sup>th</sup> Grade Courses</b>	Digital Literacy	-Office Administration -Medical Terminology	-Digital Literacy -Principles of Entrepreneurship	Accounting	-Accounting -Marketing Principles	-Accounting -Sports & Event Marketing	Accounting -Principles of Entrepreneurship
<b>12<sup>th</sup> Grade Courses</b>	-Personal Finance -Office Admin -Business Co-Op	-Personal Finance -Business Co-Op	-Business Co-Op -Principles of Entrepreneurship	-Personal Finance -Business Co-Op	-Personal Finance -Principles of Entrepreneurship -Business Co-Op	-Principles of Entrepreneurship -Personal Finance -Marketing Co-op*	-Principles of Entrepreneurship -Marketing Co-op -Personal Finance
<b>Industry Certification</b>	MOS (Excel, P.P., Word) and ASK	MOS (Excel, P.P., Word) OR Google Cloud AND ASK	MOS (Excel, P.P., Word) and ASK	ASK	ASK	ASK and Google Analytics	ASK: Fundamental Marketing concepts
<b>Possible Careers</b>	*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	*Investment Advisor *Account Manager *Appraiser *Bank Teller *Bookkeeper *Entrepreneur *Investment Banker *Loan Officer *Money Manager *Mortgage Broker *Sales Representative *Tax Preparer	*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	*Cashier *Restaurant Manager *Retail Buyer *Retail Salesperson *Sales Representative *Shipping and Receiving Clerk *Stock Clerk *Technical Sales Representative

## Engineering Pathways

Pathways	Civil Engineering	Electrical Electronics Engineering	Flight and Aeronautics	Mechanical Engineering
<b>9<sup>th</sup> Grade Courses</b>	Engineering I	Engineering I	Introduction to Aerospace & Aviation	Engineering I
<b>10<sup>th</sup> Grade Courses</b>	Engineering II	Engineering II	Aviation I	Engineering II
<b>11<sup>th</sup> Grade Courses</b>	Electrical/Electronics Engineering	Electrical/Electronics Engineering	Aviation II	-Electrical/Electronics Engineering -Robotics Engineering (VEX)
<b>12<sup>th</sup> Grade Courses</b>	-Civil Engineering -Engineering Capstone	Engineering Capstone	Aviation Capstone	-Mechanical Engineering -Engineering Capstone
<b>Industry Certification</b>	Autodesk Revit	Autodesk Inventor	FAA- Remote Pilot Cert	Autodesk Inventor
<b>Possible Careers</b>	<ul style="list-style-type: none"> <li>*Civil Engineer Inventor</li> <li>*Agricultural Engineer</li> <li>*Environmental Engineer</li> <li>*Mining Engineer</li> <li>*Engineering Tech</li> <li>*Civil Engineering Tech</li> <li>* Land Surveyor</li> <li>*Geo-Technical Engineer</li> <li>*Public Works</li> <li>*Military Engineer</li> <li>*Aerospace Engineer</li> <li>*Forensic Engineer</li> <li>*Urban Planning</li> </ul>	<ul style="list-style-type: none"> <li>*Engineering Tech Ed Teacher</li> <li>*Electronics Engineer</li> <li>*Electrical Engineer</li> <li>*Computer Hardware Engineer</li> <li>*Electronics Engineering Tech</li> <li>*Engineering Tech</li> <li>*Electrical Engineering Tech</li> <li>*Controls Engineer</li> <li>*Robotics Engineer</li> <li>*Sales Engineer</li> <li>*Instrumentation Engineer</li> <li>*Consulting Engineer</li> </ul>	<ul style="list-style-type: none"> <li>*Aerospace Engineer</li> <li>*Aerospace Technician</li> <li>*Private Pilot</li> <li>*Commercial Pilot</li> <li>*Crew Chief</li> <li>* Flight Instructor</li> <li>* Commercial Aviator</li> <li>* Military Aviator</li> <li>*Military Navigator</li> <li>*Drone Pilot</li> <li>*Drone Land Surveyor</li> <li>*Drone Real Estate Photographer</li> </ul>	<ul style="list-style-type: none"> <li>*Engineering Technology Education Teacher</li> <li>*Mechanical Engineer</li> <li>*Mechanical Engineering Technician</li> <li>*Industrial Designer</li> <li>*Engineering Tech</li> <li>*Industrial Engineer</li> <li>*Aerospace/Aviation Design</li> <li>*Biosystems Engineer</li> <li>*Engineering Technology</li> <li>*Manufacturing Manager</li> <li>*Industrial Engineering Tech</li> </ul>

## Family and Consumer Sciences

Pathways	Consumer and Family Services	Culinary and Food Services	Early Childhood Education	Fashion and Interior Design	Fundamentals of Teaching	Hospitality, Travel, Tourism, and Recreation
<b>9<sup>th</sup> Grade Courses</b>	FCS Essentials	-FCS Essentials -Introduction to Culinary	FCS Essentials	FCS Essentials	FCS Essentials	-Foods and Nutrition <b>OR</b> -FCS Essentials
<b>10<sup>th</sup> Grade Courses</b>	Foods and Nutrition	-Introduction to Culinary -Foods and Nutrition -Advanced Foods and Nutrition	-Relationships -Parenting	Fashion and Interior Design I	Early Lifespan Development	Marketing Principles
<b>11<sup>th</sup> Grade Courses</b>	-Relationships -Parenting	Culinary I and ServSafe	Early Lifespan Development	Fashion and Interior Design II	Middle to Late Lifespan Development	Advanced Foods and Nutrition
<b>12<sup>th</sup> Grade Courses</b>	-Money Skills for Math -Middle to Late Lifespan Development -Co-op	-Culinary Arts II -Special topics -Culinary Internship	Child Development Services I/II -Principles of Teaching -Co-op	-Fashion and Interior Design III -Fashion Co-Op -Money Skills for math	-Principles of Teaching -FCS Leaders at work (LeadershipDynamics) -Internship	- Travel & Tourism Marketing  -Marketing Education Co-op
<b>Industry Certification</b>	AAFCS PrePac	ServSafe Food Manager's Credential <b>OR</b> AAFCS PrePac <b>OR</b> ProStart Certificate	-CCCC -Orientation Training -Pediatric Head Trauma <b>OR</b> CDA	AAFCS PrePac	AAFCS Prepac	CHTMP
<b>Possible Careers</b>	*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 *Child and Youth Worker *Cabinet of Health and Family Services *Daycare Inspector/Rater	*Fashion Designer *Interior Designer *Retail Buyer *Clothing Manufacturer *Furniture Designer *Model *Image Consultant *Critic *Graphic Designer *Costume Designer *Visual Merchandiser	*Teacher – all levels and areas *Teacher Assistant *Principal *Superintendent *School Counselor *Instructional Supervisor *Department of Education Professional *Textbook author or editor *Corporate Trainer *Private Tutor *Museum Educator *College Professor	*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
<b>9<sup>th</sup> Grade Courses</b>	Principles of Health	Principles of Health	Principles of Health	Principles of Health	Principles of Health Science
<b>10<sup>th</sup> Grade Courses</b>	Medical Terminology /Emergency Procedures	Medical Terminology /Emergency Procedures	Medical Terminology /Emergency Procedures	Medical Terminology /Emergency Procedures	Medical Terminology /Emergency Procedures
<b>11<sup>th</sup> Grade Courses</b>	Anatomy/Body Structures	Anatomy/Body Structures	Anatomy/Body Structures	-Anatomy/Body Structures - Medicaid Nurse Aide	Medical Office Procedures
<b>12<sup>th</sup> Grade Courses</b>	-EKG Technology -Medical Math	Pharmacy Tech	Phlebotomy	-Medicaid Nurse Aide -Advanced Nursing	Medical Administrative Internship
<b>Industry Certification</b>	NHA Certified EKG Technician	NHA Certified Pharmacy Technician	NHA certified Phlebotomy Technician	State Registered Nursing Assistant (SRNA)	-NHA Billing and Coding Specialist (CBCS) <b>OR</b> -NHA Certified Medical Administrative Assistant (CMAA)
<b>Possible Careers</b>	*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
<b>9<sup>th</sup> Grade Courses</b>	-Computer Literacy -Digital Literacy	Digital Literacy	Digital Literacy	Digital Literacy
<b>10<sup>th</sup> Grade Courses</b>	Introduction to Programming	Introduction to Programming	Computer Hardware and Software Maintenance	Computer Hardware and Software Maintenance
<b>11<sup>th</sup> Grade Courses</b>	Project-Based Programming	Game Design and Development Principles	Introduction to Networking Concepts	Introduction to Networking Concepts
<b>12<sup>th</sup> Grade Courses</b>	Information Technology Internship	Introduction to Digital 3D Game Graphics	-Information Technology Internship -MS Client/Server Configuration	-Security Fundamentals -Information Technology Internship
<b>Industry Certification</b>	MTA: 2 Exams Reqd- HTML5 App Dev, Intro to Programming using HTML and CSS or Java or Javascript or Python, Software Dev. Fund.	MTA: 2 Exams Reqd- HTML5 App Dev, Intro to Programming using HTML and CSS or Block Based or Javascript or Python, Software Dev. Fund.	MTA: 2 Exams Reqd- Mobility and Device , Windows Operating System, Windows Server Admin, Network Fundamentals, Cloud Fundamentals	-MTA: Security Fundamentals and -Comptia IT Fundamentals
<b>Possible Careers</b>	*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

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**Construction**

**JROTC**

**Law and Public Safety**

Pathways	Electrical Construction Engineering	Residential Maintenance	Army JROTC	Fire Science and Firefighting	Law Enforcement Services
<b>9<sup>th</sup> Grade Courses</b>	Engineering I	Intro to Building and Apartment Maintenance	JROTC I		Introduction to Criminal Justice
<b>10<sup>th</sup> Grade Courses</b>	Engineering II	Residential Maintenance Carpentry	JROTC II		Corrections
<b>11<sup>th</sup> Grade Courses</b>	Electrical/Electronic Engineering	Residential HVAC or Interior Maintenance or Masonry or Wiring or Plumbing	<b>JROTC III</b>		Criminal Law and Procedures
<b>12<sup>th</sup> Grade Courses</b>	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	<b>-JROTC IV</b> <b>-JROTC V</b>	All Courses at ECTC FRS 101, 102, 103, 104 and 204 * must meet benchmarks to take ENG 101 and math	Criminal Law Co-Op
<b>Industry Certification</b>	NCCER OSHA 10	NCCER 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)
<b>Possible Careers</b>	*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**      **Early College**

Pathways	Welder Entry Level	Cinematography and Video Production	Automotive Maintenance and Light Repair Technician	Early College
<b>9<sup>th</sup> Grade Courses</b>		Introduction to Media Arts		<b>-Must complete Alg I, Geometry and Alg II -ACT benchmarks in English (18), Math (22), Reading (20)</b> <b>-There is also an application</b>
<b>10<sup>th</sup> Grade Courses</b>	Basic Welding and Lab	Video Studio Fundamentals	Basic Automotive Electricity	
<b>11<sup>th</sup> Grade Courses</b>	Shielded Metal Arc Welding /Cutting Processes	Studio Directing and Performance	Automotive Maintenance and Light Repair A	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.
<b>12<sup>th</sup> Grade Courses</b>	-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	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.
<b>Industry Certification</b>	AWS-2F	Adobe: Premiere Pro, After Effects, Photoshop	ASE (MLR)	College Readiness
<b>Possible Careers</b>	*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 *Radio / Television Program Director	*Automotive Service Technician *Auto Detailer *Automotive Recycler *Customer Service Representative (Service Writer/Advisor) *Dispatcher *Warranty Clerk *Automobile Salesperson *Service Manager	All Careers Requiring /Preferring a College Degree