

Career Pathways with High School Course Plans

and

Potential Careers Upon Completion

North Hardin High School

2022-2023



HARDIN COUNTY SCHOOLS

HELPING CHILDREN SUCCEED

Agricultural Education Pathways

| Pathways | Agricultural Power Structural Technical Systems | 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 | -Small Power and Equipment -Ag. Construction -Ag Structures/Design | -Animal Science -Small Animal Technology | Introduction to Greenhouse and Crop Production |
| 12th Grade Courses | -Agriculture Power and Machinery Operation -AG Co-op | -Equine Science -Veterinary Science -AG Co-op | -Greenhouse Technology -Floriculture and Floral Design -AG Co-op |
| Industry Certification | 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 *Nursery / Greenhouse Grower *Botanist |

Business and Marketing Education

| Pathways | Accounting | Administrative Support | E-Commerce | Financial Services | Management Entrepreneurship | Marketing | Retail Services |
|--------------------------------------|--|--|--|--|---|---|--|
| 9th Grade Courses | Business and Marketing Essentials | Business and Marketing Essentials | Business and Marketing Essentials | Business and Marketing Essentials | Business and Marketing Essentials | Business and Marketing Essentials | Business and Marketing Essentials or Marketing Principles |
| 10th Grade Courses | Accounting | Digital Literacy OR CIT 105 (Computer Literacy) | -Marketing Principles -Advertising and Promotions | Marketing Principles | Digital Literacy OR CIT 105 (Computer Literacy) | -Marketing Principles -Advertising and Promotions | Retail Marketing |
| 11th Grade Courses | Digital Literacy OR CIT 105 (Computer Literacy) | -Office Administration -Medical Terminology & Emergency procedures | -Digital Literacy or CIT 105 (Computer Literacy) -Principles of Entrepreneurship | Accounting | -Accounting -Marketing Principles | -Accounting -Sports & Event Marketing -Travel and Tourism | Accounting -Principles of Entrepreneurship |
| 12th Grade Courses | -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 |
| Industry Certification | MOS (Excel, P.P., Word) AND ASK Finance | MOS (Excel, P.P., Word) AND ASK Business | MOS (Excel, P.P., Word) AND ASK OR ASK Marketing <small>(alone)</small> | ASK | ASK | ASK: Fundamental Marketing concepts | ASK: Fundamental Marketing concepts |
| 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 | *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 |
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| 9th Grade Courses | Engineering I | Engineering I | Introduction to Aerospace & Aviation | Engineering I |
| 10th Grade Courses | Engineering II | Engineering II | Aviation I | Engineering II |
| 11th Grade Courses | -Civil Engineering (DC PLW 225) | Electrical/Electronics Engineering (DC PLW 150) | Aviation II | Electrical/Electronics Engineering (DC PLW 150) -Robotics Engineering (VEX) |
| 12th Grade Courses | -Engineering Capstone -Engineering Co-op | Engineering Capstone | Aviation Capstone (DC AVN 150/170) | -Mechanical Engineering (DC PLW 250) -Engineering Co-op -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 | Fashion and Interior Design | Fundamentals of Teaching | Hospitality, Travel, Tourism, and Recreation |
|--------------------------------------|--|---|--|---|---|---|
| 9th Grade Courses | FCS Essentials | -FCS Essentials -Introduction to Culinary | FCS Essentials | FCS Essentials | 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 | Fashion and Interior Design I | Early Lifespan Development -Relationships | Marketing Principles |
| 11th Grade Courses | -Relationships -Parenting | Culinary I | Early Lifespan Development | Fashion and Interior Design II | Middle to Late Lifespan Development | Advanced Foods and Nutrition |
| 12th Grade Courses | -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 | - Travel & Tourism Marketing -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 | AAFCS PrePac | AAFCS Prepac | 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 *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 |
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| 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 - NAA 100-Nursing Asst. Skills | Medical Office Procedures |
| 12th Grade Courses | -EKG Technology -Medical Math | Pharmacy Tech | Phlebotomy | -NAA 100-Nursing Asst. Skills-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 | -Cybersecurity -Information Technology Internship |
| Industry Certification | Certiport IT specialist: Java and CompTIA IT fundamentals | Unity Certified User: -Programmer -Artist OR -Game Developer | CompTIA Network + | CompTIA Security + |
| 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 |

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Construction

JROTC

Law and Public Safety

| Pathways | Building Construction Technology | Army JROTC | Fire Science and Firefighting | Law Enforcement Services |
|--------------------------------------|---|---|---|--|
| 9th Grade Courses | Intro to Building and Apartment Maintenance | JROTC I | | Introduction to Criminal Justice |
| 10th Grade Courses | Residential Maintenance Carpentry | JROTC II | | Law Enforcement |
| 11th Grade Courses | Residential HVAC or Interior Maintenance or Masonry or Wiring or Plumbing | JROTC III | | Correctional Systems |
| 12th Grade Courses | 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 |
| Industry Certification | 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) |
| 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 | *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

Teaching

Cosmetology

| Pathways | Welder Entry Level | Cinematography and Video Production | Automotive Maintenance and Light Repair Technician | Teaching and Learning | Cosmetology |
|--------------------------------------|--|---|--|---|---|
| 9th Grade Courses | | Introduction to Media Arts | | The Learning Community (DC available) | ----- |
| 10th Grade Courses | Basic Welding and Lab | Video Studio Fundamentals | Basic Automotive Electricity | The Learner-Centered Classroom (DC available) | ----- |
| 11th Grade Courses | Shielded Metal Arc Welding /Cutting Processes | Studio Directing and Performance | Automotive Maintenance and Light Repair A | The Professional Educator (DC available) | ----- |
| 12th Grade Courses | -Gas Metal Arc Welding - Gas Tungsten Arc Welding -Welding Internship <u>Additional Performance-Based Credits:</u> -Blueprint Reading (.5 credit) -Cutting Processes (1 credit) | -Advanced Studio Production -Media Arts Internship | Automotive Maintenance and Light Repair B, C, and D | -Collaborative Clinical Experience OR -A dual credit course in intended teaching discipline | -Senior Year DC Cosmetology through Campbellsville University -\$500/semester -Can Use KEES after Graduation -Hours earned toward full cosmetology license |
| Industry Certification | AWS-2F | Adobe: Premiere Pro, After Effects, Photoshop | ASE (MLR) | AAFCS Pre-Pac | Cosmetology License (earned post graduation once license hours are completed) |
| 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 *Radio / Television Program Director | *Automotive Service Technician *Auto Detailer *Automotive Recycler *Customer Service Representative (Service Writer/Advisor) *Dispatcher *Warranty Clerk *Automobile Salesperson *Service Manager | *Elementary, Middle School, or High School teaching *Elementary Educator *Middle School Educator *Secondary Educator *Related Careers with advanced degree: *Counselor *Asst. Principal *Principal | *Cosmetologist *Hair Stylist *Nail Tech *Make-up Artist *Esthetician *Barber |

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| | | | | *Instructional Support | |
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Apprenticeships

Early College

| Pathways | Apprenticeships | The Academy and/or Early College |
|-------------------------------|--|---|
| | Students start with appropriate pathway classes to prepare them for on-the-job learning | <ul style="list-style-type: none"> -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) |
| | <p>Available Apprenticeships:</p> <ul style="list-style-type: none"> -Help Desk Tech (IT) -Diesel Mechanic (Auto) -Building Maintenance (Construction) -Child Development Specialist (ECE) <p>-For individualized options see your transition coach.</p> | <p>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.</p> <p>Early College (12th Grade) Students will take 30 hours of dual credit at ECTC. They follow the ECTC calendar.</p> <p>Students that choose to enter the pathway their senior year can do so, there is an application for this as well.</p> |
| Industry Certification | | College Readiness |
| Possible Careers | 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 or Preferring a College Degree |