



GREAT CROSSING HIGH SCHOOL CTE PATHWAYS

2024-2025



AGRICULTURE PROGRAM CAREER PATHWAYS		
Animal Science	Horticulture & Plant Systems	Ag Power, Structural, Technical Systems
Course I Principles of Agricultural Science & Technology		
Course II Animal Science*	Course II Introduction to Greenhouse*	Course II Small Power & Equipment
Course III Vet Science*	Course III Landscape & Turf Management OR Floral Design	Course III Ag Construction
Course IV Ag Employability Skills* & Work-Based Learning (Co-op/Internship)		
AVAILABLE INDUSTRY CERTIFICATIONS		
iCEV-Fundamentals of Animal Science iCEV-Elanco Veterinary Medical Application NAVTA Veterinary Assisting Certification	ICEV BASF Plant Science KY Dept of Agriculture Pesticide Operator Certification: Agricultural Pests Forest Turf & Ornamental Plants Golf Course Interior Landscape Athletic Turf *Murray State University Dual Credit Available	AWS Sense Certification EETC 4 Stroke Engine EETC 2 Stroke Engine iCEV Prin of Small Engine Technology MSSC-Certified Production Technician

FAMILY & CONSUMER SCIENCES PROGRAM CAREER PATHWAYS		
Consumer and Family Services	Culinary	Early Childhood Education
Course I FACS Essentials (Life Skills)		
Course II Money Skills	Course II Foods & Nutrition	Course II Early Lifespan Development
Course III Mid-Late Lifespan Development	Course III Culinary Arts I	Course III Child Development Services I
Course IV Foods & Nutrition or Special Topics	Course IV Culinary Arts II	Course IV Child Development Services II
Work-Based Learning (Co-op/Internship)		
AVAILABLE INDUSTRY CERTIFICATIONS		
AAFCS Pre-PAC Family and Community Services AAFCS Pre-PAC Personal and Family Finance	AAFCS Pre-PAC Culinary Arts ProStart Certificate of Achievement ServSafe Food Handler Certification ServSafe Food Manager's Credential	AAFCS Pre-PAC Education Fundamentals

TEACHING & LEARNING CAREER PATHWAYS
Teaching & Learning
Course I Early Lifespan Development
Course II Mid-Late Lifespan Development
Course III Foundations of Education (EDF 203)* Clinical-Intro to Education Profession (CED 100)*
Course IV Culturally Responsive Perspectives (EDC 106)* Emerging Instructional Technologies (EDF 204)*
AVAILABLE INDUSTRY CERTIFICATIONS
AAFCS Pre-Pac Industry Certifications *EKU Dual Credit Available

HEALTH SCIENCE CAREER PATHWAY
Clinical Medical Assisting
Course I Principles of Health Science
Course II Emergency Procedures (.5 credit) Medical Math (.5 credit)
Course III Medical Terminology*
Course IV Medical Assisting Clinical Procedures
AVAILABLE INDUSTRY CERTIFICATIONS
NHA Clinical Medical Assistant *BCTC Dual Credit Available

INFORMATION TECHNOLOGY & BUSINESS SERVICES PROGRAM CAREER PATHWAYS		
Computer Programming	Web Development	E-Commerce Marketing
Course I Computer Literacy OR Introduction to Computers*		
Course II AP Computer Science Principles	Course II Web Page Development	Course II Web Page Design OR Multimedia Publishing
Course III Web Page Development	Course III Website Design & Production	Course III Business Start-ups
Course IV Technology Help Desk OR Work Based Learning (Co-op/Internship)		
AVAILABLE INDUSTRY CERTIFICATIONS		
Adobe Certified Professional Photoshop Illustrator ITS—Information Technology Specialist TestOut Office Pro Microsoft Office Specialist (MOS) Excel Word PowerPoint Assessment of Skills and Knowledge for Business (ASK) - Fundamental Business or Marketing Concepts *BCTC Dual Credit Available		

MANUFACTURING WELDING TECHNOLOGY CAREER PATHWAYS	
Welding Engineering	Entry Level Welder
Course I Fundamentals of Engineering Design <i>Offered at ECS</i>	Course I Shielded Metal Arc Weld* & SMAW Fillet Lab*
Course II Principles of Engineering <i>Offered at ECS</i>	Course II Gas Metal Arc Weld* & GMAW Fillet Lab*
Course III Shielded Metal Arc Weld* & SMAW Fillet Lab*	Course III Gas Tungsten Arc Weld* & GTAW Fillet Lab*
Course IV Gas Metal Arc Weld* & GMAW Fillet Lab*	Course IV Shield Metal Groove/Backing Lab* Welding Certifications
AVAILABLE INDUSTRY CERTIFICATIONS	
KY Department of Transportation 3-G 2-F (AWS) Welding OSHA 10 OSHA 30 *BCTC Dual Credit Available	

MANUFACTURING COMPUTER AIDED DRAFTING CAREER PATHWAY
Mechanical Designer (CAD)
Course I Introduction to Computer Aided Drafting
Course II Parametric Modeling
Course III Engineering Graphics
Course IV Intro to 3-D Printing Technology
AVAILABLE INDUSTRY CERTIFICATIONS
Autodesk AutoCAD Certified User NOCTI CAD Foundations

MANUFACTURING INDUSTRIAL MAINTENANCE CAREER PATHWAY
Electrical Technician
Course I Industrial Maintenance Electrical Technician
Course II Industrial Maintenance Electrical Motor Controls
Course III Industrial Maintenance of PLC's
Course IV TBD—2025-2026
AVAILABLE INDUSTRY CERTIFICATIONS
OSHA 10 NCCER—Core Curriculum & Electrical Technician Level 1

*NOTE: Full course descriptions are available online in the 2024-2025 GCHS Course Guide.