

Union County Public Schools Career Clusters

Agriculture, Food & Natural Resources (AGNR)	Architecture & Construction (ARCH)	Arts, A/V Technology & Communications (AAVC)	Business Mgmt & Administration (BMA)	Finance (FINA)	Health Science (HLTH)	Hospitality & Tourism (HOSP)
<p><u>Foundational Courses</u> Agriscience Applications Animal Science I Animal Science II ♦ Animal Sci II - Small Animal ♦ Biotech & Agriscience Res I Equine Science I Vet Assisting ♦ Personal Finance Foods I Foods II – Enterprise ♦ Intro to Culinary Arts ♦ (override) Env & Natural Resources I Horticulture I Horticulture II ♦ Hort II – Landscaping ♦ Hort II – Turfgrass Mgmt. ♦ Agriculture Mechanics I Agriculture Mechanics II ♦ Ag Mech II–Small Engines ♦ Global Information Systems I(GIS) Global Information Systems II ♦ Clean Energy Systems Clean Energy Applications</p> <p><i>CTE Advanced Studies</i></p> <p><i>Career & College Promise</i> AGR139 Intro to Sustainable Ag AGR140 Agricultural Chemicals AGR170 Soil Science AGR212 Farm Business Mgmt AGR262 Weed ID and Control ANS110 Animal Science BPR111 Print Reading</p>	<p><u>Foundational Courses</u> Core and Sustainable Const (Intro to Cons) Intro to T & I Carpentry I Carpentry II ♦ Carpentry III Electrical Trades I Electrical Trades II ♦ Electrical Trades III Masonry I Masonry II ♦ Masonry III Drafting I Drafting II – Arch ♦ Drafting III – Arch HVAC I HVAC II ♦ HVAC III Smart Home Technology Personal Finance Prin of Business & Fin Interior Design I Interior Design II ♦ <i>CTE Advanced Studies</i></p> <p><i>Career & College Promise</i> BPR111 Print Reading ELC128 Intro to PLC CTII10 Web, Pgm, and Db ♦ DFT151 CAD I ♦ DFT151 CAD II ♦ DFT152 CAD II ♦ ELC112 DC/AC Electricity ♦ ELC117 Motors & Controls ♦ ELC128 Intro to PLC ♦</p>	<p><u>Foundational Courses</u> Intro to T & I Multimedia & Webpage Design Adobe Visual Design Adobe Digital Design ♦ Film Production I Film Production II ♦ TV Program & Broadcasting I TV Program & Broadcasting II ♦ Marketing Fashion Merchandising Scientific & Technical Visualization I Microsoft Word & PPT Apparel & Textile Production I Apparel & Textile Production II ♦ Entrepreneurship I Game Art Design ♦ Adv. Game Art Design</p> <p><i>CTE Advanced Studies</i></p> <p><i>Career & College Promise</i> SGD111 Introduction to SGD SGD112 SGD Design GRD141 Graphic Design I ♦ GRD142 Graphic Dsn II ♦ GRD151 Cpt Dsn Basics ♦ GRD152 Computer Design Tech I ♦</p>	<p><u>Foundational Courses</u> Principles of Business & Finance Microsoft Word & PPT Microsoft Excel & Access Accounting I Business Law ♦ Entrepreneurship I ♦ Entrepreneurship II Global Business ♦</p> <p><i>CTE Advanced Studies</i></p> <p><i>Career & College Promise</i> ACC121 Prin of Mng Acct ACC150 Accounting Software Applications BUS110 Intro to Business BUS115 Business Law I LEX210 Real Property I LEX241 Family Law OST148 Med Coding, Billing & Insurance OST149 Medical Legal Issues BUS139 Entrepreneurship I ♦</p>	<p><u>Foundational Courses</u> Principles of Business & Finance Personal Finance Microsoft Excel & Access Accounting I Accounting II ♦ Business Law Entrepreneurship I <i>CTE Advanced Studies</i></p> <p><i>Career & College Promise</i> ACC121 Prin of Mgr Acct ACC150 Acct Software App BUS110 Intro to Business BUS115 Business Law I BUS139 Entrepreneurship I ACC129 Indv Income Taxes ♦</p>	<p><u>Foundational Courses</u> Biomedical Tech I Biomedical Tech II ♦ Health Science I Health Science II ♦ Nursing Fundamentals Public Health Fundamentals Pharmacy Tech Health Informatics – Data & Use Health Informatics – Transf. Data PLTW Principles of Biomed PLTW Human Body Sys ♦ PLTW Medical Interventions PLTW Biomed Innovation <i>CTE Advanced Studies</i></p> <p><i>Career & College Promise</i> MED118 Medical Law & Ethics MED121 Medical Term I NAS101 Nursing Assistant I HSE110 Intro to Human Svcs HSE112 Group Process I HSE225 Crisis Intervention MED110 Orientation to Medical Assisting MED130 Admin Office Proce I MED131 Admin Office Proces II MED122 Medical Terminology II ♦ NAS102 Nursing Assistant II ♦</p>	<p><u>Foundational Courses</u> Foods I Foods II – Enterprise ♦ Intro to Culinary Arts ♦ (override) Culinary Arts I Culinary Arts II ♦ ProStart I Marketing Principles of Business & Finance Sports & Entertainment Marketing I Sports & Entertainment Marketing II ♦ Entrepreneurship I Entrepreneurship II Hospitality & Tourism ♦ <i>CTE Advanced Studies</i></p> <p><i>Career & College Promise</i> CUL110 Sanitation & Safety CUL140 Culinary Skills I CUL160 Baking I CUL240 Culinary Skills II ♦</p>
<p><u>Enhancement Courses</u> Career Management Microsoft Word & PPT Microsoft Excel & Access Intro to Culinary Arts Marketing Entrepreneurship I Principles of Business & Finance CTE Internship</p>	<p><u>Enhancement Courses</u> Career Management Multimedia/Web Design Microsoft Word & PPT Microsoft Excel & Access Marketing Fashion Merchandising Agriculture Mechanics I Apparel I Entrepreneurship I CTE Internship</p>	<p><u>Enhancement Courses</u> Career Management Microsoft Excel & Access Interior Design I Principles of Business & Finance Personal Finance CTE Internship</p>	<p><u>Enhancement Courses</u> Career Management Multimedia & Webpage Design Marketing Strategic Marketing Personal Finance CTE Internship</p>	<p><u>Enhancement Courses</u> Career Management Microsoft Word & PPT Marketing Strategic Marketing CTE Internship</p>	<p><u>Enhancement Courses</u> Career Management Microsoft Word & PPT Microsoft Excel & Access Marketing Foods I Parenting & Child Dev Entrepreneurship I Principles of Business Personal Finance Public Safety I Entrepreneurship I Biotech & Agriscience CTE Internship</p>	<p><u>Enhancement Courses</u> Career Management Multimedia/Web Design Microsoft Word & PPT Microsoft Excel & Access Equine Science I Personal Finance CTE Internship</p>

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Human Services (HUMA)	Information Technology (INFO)	Law, Public Safety, Corrections & Security (LAW)	Manufacturing (MANU)	Marketing (MRKT)	Science, Technology, Engineering & Mathematics (STEM)	Transportation, Distribution & Logistics (TRAN)
<p><u>Foundational Courses</u></p> <p>Personal Finance Principles of Business & Finance Parenting & Child Development Early Childhood Educ. I Early Childhood Educ. II ♦ Cosmetology I Cosmetology II ♦</p> <p><i>CTE Advanced Studies</i> <i>Career & College Promise</i></p>	<p><u>Foundational Courses</u></p> <p>Foundations of Info Tech Princ of Business & Finance Microsoft Excel & Access Computer Science Principles Computer Programming I Computer Programming II ♦ Intro to Cybersecurity SAS Programming I ♦ AP Computer Science IB Info Tech Princs of Business & Finance Microsoft Word & PPT Multimedia & Webpage ♦ e-Commerce I ♦ Adobe Visual Design Adobe Digital Design ♦ Intro to T & I Network Engineering I Network Engineering II ♦ Computer Engineering Tech I Computer Engin Tech II ♦ Health Infor – Data & Use Health Infor – Trans Data <i>CTE Advanced Studies</i> <i>Career & College Promise</i> CIS 110 Intro to Computers CSC151 JAVA Programming CTS115 Info Sys Bus Concepts GRD141 Graphic Design I GRD142 Graphic Design II GRD151 Com Design Basics GRD152 ComDesign Tech I NOS110 Operating Sys Con SEC110 Security Concepts WEB120 Intro to int mm WEB140 Web Dvlmt Tools WEB210 Web Design</p>	<p><u>Foundational Courses</u></p> <p>Public Safety I Public Safety II ♦ Firefighter Technology I Firefighter Tech II ♦ Firefighter Tech III Emergency Medical Tech I Emergency Medical Tech II ♦ Law & Justice I Law & Justice II ♦ <i>CTE Advanced Studies</i></p> <p><i>Career & College Promise</i></p> <p>CJC111 Intro to Criminal Justice CJC112 Criminology ♦ CJC113 Juvenile Justice ♦ CJC121 Law Enforcement Operations ♦ CJC131 Criminal Law ♦ CJC212 Ethics and Comm Relations ♦ CJC221 Investigative Principles ♦</p>	<p><u>Foundational Courses</u></p> <p>Intro to T & I Welding I Welding II ♦ Welding III Metals Mfg Technology I Metals Mfg Technology II ♦ Eng. Tech I Eng. Tech II ♦ Marketing Fashion Merchandising Apparel & Textile Prod I Apparel & Textile Prod II ♦ Entrepreneurship I Princ of Business & Finance Robotics I Robotics II ♦ Electronics I Electronics II ♦ <i>CTE Advanced Studies</i></p> <p><i>Career & College Promise</i> ISC112 Industrial Safety MAC111 Machining Technology I MAC121 Intro to CNC MNT110 Intro to Maint Proce WLD110 Cutting Processes MAC114 Intro to Metrology ♦ MAC151 Machining Calcu ♦ WLD112 Basic Wld Processes ♦ WLD115 SMAW (Stick) Pl ♦ WLD121 GMAW (MIG) FCAW/Pl ♦ WLD131 GTAW (TIG) Plate ♦ WLD141 Symbols & Specs ♦</p>	<p><u>Foundational Courses</u></p> <p>Principles of Business & Finance Marketing Marketing Mgmt ♦ Strategic Marketing Entrepreneurship I ♦ Fashion Merchandising <i>CTE Advanced Studies</i></p> <p><i>Career & College Promise</i></p> <p>BUS115 Business Law I BUS139 Entreship I ♦</p>	<p><u>Foundational Courses</u></p> <p>Intro to T & I Drafting I Drafting II - Engineering ♦ Drafting III - Engineering Scientific & Technical Visualization I Robotics I Robotics II ♦</p> <p><i>Project Lead the Way –</i> Introduction to Engineering Design Principles of Engineering I Digital Electronics ♦ Civil Engin & Arch ♦ Computer Integ. Mfg. ♦ Biotechnical ♦ Aerospace Engineering ♦ Engin Design & Development</p> <p><i>Aerospace Engineering</i> Aerospace Tech Fund Aerospace Adv. Tech ♦ Aerospace Eng Appli. Avionics I Avionics II ♦ <i>CTE Advanced Studies</i></p> <p><i>Career & College Promise</i> SGD111 Intro to SGD SGD112 SGD Design DFT151 CAD I ♦ DFT152 CAD II ♦ DFT154 Intro Solid Model ♦ MEC130 Mechanisms ♦</p>	<p><u>Foundational Courses</u></p> <p>Intro to Automotive Service Automotive Service I Automotive Service II ♦ Automotive Service III Automotive Eng. Drive Train Automotive Suspension Intro to Coll Repair Collision Repair I Collision Rep Non-Structural ♦ Collision Rep-Refinishing Collision Rep-Estimating Automotive Steering Hybrid & EV Tech Marketing Marketing Management ♦ Entrepreneurship I Strategic Marketing <i>CTE Advanced Studies</i></p> <p><i>Career & College Promise</i> TRN110 Intro to Transport Technology AUT114 Safety & Emissions ♦ AUT116 Engine Repair ♦ AUT141 Suspension & Steering Systems ♦ AUT151 Brake Systems ♦ AUT181 Engine Performance ♦ HYD110 Hydraulics/Pneumatics I ♦</p>
<p><u>Enhancement Courses</u></p> <p>Career Management Microsoft Word & PPT Microsoft Excel & Access Foods I Entrepreneurship I CTE Internship</p>	<p><u>Enhancement Courses</u></p> <p>Career Management Entrepreneurship I Personal Finance CTE Internship</p>	<p><u>Enhancement Courses</u></p> <p>Career Management Microsoft Word & PPT Microsoft Excel & Access Principles of Business & Finance Personal Finance Hospitality & Tourism CTE Internship</p>	<p><u>Enhancement Courses</u></p> <p>Career Management Multimedia & Webpage Design Microsoft Word & PPT Microsoft Excel & Access Access Ag. Mechanics I Drafting I Personal Finance CTE Internship</p>	<p><u>Enhancement Courses</u></p> <p>Career Management Multimedia & Webpage Design Microsoft Word & PPT Micro Excel & Access Business Law Apparel I Personal Finance Hospitality & Tourism CTE Internship</p>	<p><u>Enhancement Courses</u></p> <p>Career Management Multimedia & Web Design Microsoft Word & PPT Microsoft Excel & Access Horticulture I Biotech & Agriscience I Entrepreneurship I Princ of Business & Finance Personal Finance CTE Internship</p>	<p><u>Enhancement Courses</u></p> <p>Career Management Microsoft Word & PPT Microsoft Excel & Access Agriculture Mechanics I Princs of Business & Finance Personal Finance Automotive Computer System Diagnostics Intro to T & I CTE Internship</p>