

GUILFORD COUNTY SCHOOLS CAREER & TECHNICAL EDUCATION (CTE)

Clusters & Pathways

Reference Document



As of 3/11/21

GCS CTE Clusters & Pathways

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As of 3/12/2021

GCS CTE Clusters & Pathways

CTE Career Cluster					
Agricultural, Food and Natural Resources					
CTE Career Pathway					
Animal Science (ANSC)					
Pathway Completer		CTE Course 1	CTE Course 2	CTE Course 3	CTE Career Pathway Major
CTE Concentrator	CTE Major	AU10 Agriscience Applications	AA21 Animal Science I	AA22 Animal Science II* or AA23 Animal Science II – Small Animal*	AA41 Veterinary Assisting Work-Based Learning: CTE Apprenticeship, Cooperative Education (Co- op), Clinical or CTE Internship
Supplemental CTE Courses	BM10 Microsoft Word and PowerPoint BM20 Microsoft Excel				
Career & College Promise	Approved Career & College Promise Career Technical Education Pathway				
CTE Industry Recognized Credentials: WorkKeys National Career Readiness Certificate, Certified Veterinary Assistant					
CTE Careers Existing Today and Tomorrow: Veterinarian, Animal Health Scientist, Animal Biologist, Science Policy Director					

*Denotes CTE Concentrator Course

As of 3/12/2021

CTE Career Cluster
Agricultural, Food and Natural Resources

CTE Career Pathway
Plant Systems (PLSV)

Pathway Completer		CTE Course 1	CTE Course 2	CTE Course 3	CTE Career Pathway Major
CTE Concentrator	CTE Major	AU10 Agriscience Applications	AP41 Horticulture I	AP42 Horticulture II* or AP44 Horticulture II – Landscaping* or AP43 Horticulture II – Turfgrass Management*	Work-Based Learning: CTE Apprenticeship, Cooperative Education (Co-op), Clinical or CTE Internship
Supplemental CTE Courses	BM10 Microsoft Word and PowerPoint BM20 Microsoft Excel				
Career & College Promise	Approved Career & College Promise Career Technical Education Pathway				
CTE Industry Recognized Credentials: WorkKeys National Career Readiness Certificate, North Carolina Certified Plant Professional (CPP), Certified Young Plant Professional (CYPP), NC Private Pesticide Applicator					
CTE Careers Existing Today and Tomorrow: Landscaper, Global System Architect, Fear Containment Manager					

*Denotes CTE Concentrator Course

**CTE Career Cluster
Architecture**

**CTE Career Pathway
Carpentry (CARP)**

Pathway Completer		CTE Course 1	CTE Course 2	CTE Course 3	CTE Career Pathway Major
CTE Concentrator	CTE Major	IC00 Construction Core	IC21 Carpentry I	IC 22 Carpentry II*	IC23 Carpentry III Work-Based Learning: CTE Apprenticeship, Cooperative Education (Co-op), Clinical or CTE Internship
Supplemental CTE Courses	BM10 Microsoft Word and PowerPoint BM20 Microsoft Excel				
Career & College Promise	Approved Career & College Promise Career Technical Education Pathway				
CTE Industry Recognized Credentials: WorkKeys National Career Readiness Certificate, OSHA 10-Hour Construction Industry Certifications, NC NCCER Credential - Carpentry I, NC NCCER Credential - Carpentry II					
CTE Careers Existing Today and Tomorrow: Shareability Auditor, Opportunity Spotters, Impact Assessors					

*Denotes CTE Concentrator Course

CTE Career Cluster Architecture					
CTE Career Pathway Drafting Architectural (DRFA)					
Pathway Completer		CTE Course 1	CTE Course 2	CTE Course 3	CTE Career Pathway Major
CTE Concentrator	CTE Major	IC61 Drafting I	IC62 Drafting II – Architectural*	IC63 Drafting III – Architectural	Work-Based Learning: CTE Apprenticeship, Cooperative Education (Co-op), Clinical or CTE Internship
Supplemental CTE Courses	BM10 Microsoft Word and PowerPoint BM20 Microsoft Excel				
Career & College Promise	Approved Career & College Promise Career Technical Education Pathway				
CTE Industry Recognized Credentials: WorkKeys National Career Readiness Certificate, Autodesk Certified User AutoCAD, Autodesk Certified User Revit, Autodesk Certified Professional Revit					
CTE Careers Existing Today and Tomorrow: Architect, Construction Material Designer, Structural Engineer, Global System Architect					

*Denotes CTE Concentrator Course

CTE Career Cluster

Architecture

CTE Career Pathway

Electrical Trades (ELTR)

Pathway Completer		CTE Course 1	CTE Course 2	CTE Course 3	CTE Career Pathway Major
CTE Concentrator	CTE Major	IC00 Construction Core	IC41 Electrical Trades I	IC42 Electrical Trades II*	IC43 Electrical Trades III Work-Based Learning: CTE Apprenticeship, Cooperative Education (Co-op), Clinical or CTE Internship
Supplemental CTE Courses	BM10 Microsoft Word and PowerPoint BM20 Microsoft Excel				
Career & College Promise	Approved Career & College Promise Career Technical Education Pathway				
CTE Industry Recognized Credentials: NC NCCER Credential - Electrical Trades, WorkKeys National Career Readiness Certificate					
CTE Careers Existing Today and Tomorrow: Electrician, Micro Grid Strategists, Power Conversion Specialists					

*Denotes CTE Concentrator Course

CTE Career Cluster
Architecture

CTE Career Pathway
Heating, Ventilation, and AC (HVAC)

Pathway Completer		CTE Course 1	CTE Course 2	CTE Course 3	CTE Career Pathway Major
CTE Concentrator	CTE Major	IC00 Construction Core	IL55 Heating, Ventilation, & Air Conditioning I	IL56 Heating, Ventilation, & Air Conditioning II*	IL57 Heating, Ventilation, & Air Conditioning III Work-Based Learning: CTE Apprenticeship, Cooperative Education (Co-op), Clinical or CTE Internship
Supplemental CTE Courses	BM10 Microsoft Word and PowerPoint BM20 Microsoft Excel				
Career & College Promise	Approved Career & College Promise Career Technical Education Pathway				
CTE Industry Recognized Credentials: WorkKeys National Career Readiness Certificate, NCCER Certification, Occupational Safety and Health Administration (OSHA) 10-Hour Construction Industry Credential					
CTE Careers Existing Today and Tomorrow: Commercial HVAC Technician, HVAC Project Manager, Controller, Robot Sherpa Operations Manager, IoT Smart Appliance Installer					

*Denotes CTE Concentrator Course

CTE Career Cluster Architecture					
CTE Career Pathway Interior Design (INDE)					
Pathway Completer		CTE Course 1	CTE Course 2	CTE Course 3	CTE Career Pathway Major
CTE Concentrator	CTE Major	FI21 Interior Design Fundamentals	FI22 Interior Studio*	FI23 Interior Design Technology	Work-Based Learning: CTE Apprenticeship, Cooperative Education (Co-op), Clinical or CTE Internship
Supplemental CTE Courses	BM10 Microsoft Word and PowerPoint BM20 Microsoft Excel				
Career & College Promise	Approved Career & College Promise Career Technical Education Pathway				
CTE Industry Recognized Credentials: WorkKeys National Career Readiness Certificate, Autodesk Certified User Revit					
CTE Careers Existing Today and Tomorrow: Furniture Designer, Facilities Architect, Virtual Showroom Coordinator, 3D Design Manager					

*Denotes CTE Concentrator Course

CTE Career Cluster Architecture					
CTE Career Pathway Masonry (MASO)					
Pathway Completer		CTE Course 1	CTE Course 2	CTE Course 3	CTE Career Pathway Major
CTE Concentrator	CTE Major	IC00 Construction Core	IC11 Masonry I	IC12 Masonry II*	IC13 Masonry III Work-Based Learning: CTE Apprenticeship, Cooperative Education (Co-op), Clinical or CTE Internship
Supplemental CTE Courses	BM10 Microsoft Word and PowerPoint BM20 Microsoft Excel				
Career & College Promise	Approved Career & College Promise Career Technical Education Pathway				
CTE Industry Recognized Credentials: WorkKeys National Career Readiness Certificate, Autodesk Certified User Revit					
CTE Careers Existing Today and Tomorrow: Furniture Designer, Facilities Architect, Virtual Showroom Coordinator, 3D Design Manager					

*Denotes CTE Concentrator Course

CTE Career Cluster Arts, A/V Technology, & Communications					
CTE Career Pathway Adobe Academy (ADAC)					
Pathway Completer		CTE Course 1	CTE Course 2	CTE Course 3	CTE Career Pathway Major
CTE Concentrator	CTE Major	II31 Adobe Visual Design	II32 Adobe Digital Design*	II33 Adobe Video Design	Work-Based Learning: CTE Apprenticeship, Cooperative Education (Co-op), Clinical or CTE Internship
Supplemental CTE Courses	BM10 Microsoft Word and PowerPoint BM20 Microsoft Excel				
Career & College Promise	Approved Career & College Promise Career Technical Education Pathway				
CTE Industry Recognized Credentials: WorkKeys National Career Readiness Certificate, Adobe Photoshop, InDesign, Illustrator, Adobe Dreamweaver, Adobe Premiere					
CTE Careers Existing Today and Tomorrow: Motion Graphics Designer, 3Dimensionalist, 3D Printer “Ink” Developer, Animation Expert					

*Denotes CTE Concentrator Course

CTE Career Cluster Arts, A/V Technology, & Communications					
CTE Career Pathway Apparel and Textile Production (ATPR)					
Pathway Completer		CTE Course 1	CTE Course 2	CTE Course 3	CTE Career Pathway Major
CTE Concentrator	CTE Major	MI21 Fashion Merchandising	FA31 Apparel and Textile Production I	FA32 Apparel and Textile Production II*	Work-Based Learning: CTE Apprenticeship, Cooperative Education (Co-op), Clinical or CTE Internship
Supplemental CTE Courses	BM10 Microsoft Word and PowerPoint BM20 Microsoft Excel ME11 Entrepreneurship I				
Career & College Promise	Approved Career & College Promise Career Technical Education Pathway				
CTE Industry Recognized Credentials: WorkKeys National Career Readiness Certificate, Pre-Professional Assessment and Certification in Fashion, Textiles, and Apparel					
CTE Careers Existing Today and Tomorrow: Textile CAD Designer, Apparel Colorist, 3D Fashion Designer, Digital Fabricator, eCommerce Strategist					

*Denotes CTE Concentrator Course

CTE Career Cluster Arts, A/V Technology, & Communications					
CTE Career Pathway Media Productions (MPRS)					
Pathway Completer		CTE Course 1	CTE Course 2	CTE Course 3	CTE Career Pathway Major
CTE Concentrator	CTE Major	II31 Adobe Visual Design	II33 Adobe Video Design	IL70 Media Production I	IL71 Media Production II* Work-Based Learning: CTE Apprenticeship, Cooperative Education (Co-op), Clinical or CTE Internship
Supplemental CTE Courses	BM10 Microsoft Word and PowerPoint BM20 Microsoft Excel				
Career & College Promise	Approved Career & College Promise Career Technical Education Pathway				
CTE Industry Recognized Credentials: WorkKeys National Career Readiness Certificate, TBD by Industry Partners					
CTE Careers Existing Today and Tomorrow: Video Scheduling Specialist, Master Control Operator, TV Programming Director, Streaming Service Animation Expert, Global Broadcast Operations Manager					

*Denotes CTE Concentrator Course

CTE Career Cluster Arts, A/V Technology, & Communications					
CTE Career Pathway Digital Design and Animation (DIDE)					
Pathway Completer		CTE Course 1	CTE Course 2	CTE Course 3	CTE Career Pathway Major
CTE Concentrator	CTE Major	TS24 Digital Design and Animation I	TS25 Digital Design and Animation II*	II33 Adobe Video Design	Work-Based Learning: CTE Apprenticeship, Cooperative Education (Co-op), Clinical or CTE Internship
Supplemental CTE Courses	BM10 Microsoft Word and PowerPoint BM20 Microsoft Excel ME11 Entrepreneurship I				
Career & College Promise	Approved Career & College Promise Career Technical Education Pathway				
CTE Industry Recognized Credentials: WorkKeys National Career Readiness Certificate, Adobe Dreamweaver					
CTE Careers Existing Today and Tomorrow: Graphic Designer, Digital Art Director, Virtual Animation Architect, Futuristic Design Coordinator					

*Denotes CTE Concentrator Course

CTE Career Cluster Arts, A/V Technology, & Communications					
CTE Career Pathway Game Art Design (GADE)					
Pathway Completer		CTE Course 1	CTE Course 2	CTE Course 3	CTE Career Pathway Major
CTE Concentrator	CTE Major	TS24 Digital Design and Animation I	TS31 Game Art Design*	TS32 Advanced Game Art Design	Work-Based Learning: CTE Apprenticeship, Cooperative Education (Co-op), Clinical or CTE Internship
Supplemental CTE Courses	TS25 Digital Design and Animation II BM10 Microsoft Word and PowerPoint BM20 Microsoft Excel				
Career & College Promise	Approved Career & College Promise Career Technical Education Pathway				
CTE Industry Recognized Credentials: WorkKeys National Career Readiness Certificate, TBD by Industry Partners					
CTE Careers Existing Today and Tomorrow: Developer Relations Technical Creator, 3D Game Sculptor, Marketing and Production Game Artist, Data Analytics Specialist, Mixed Reality Game Inventor					

*Denotes CTE Concentrator Course

CTE Career Cluster Business Management and Administration					
CTE Career Pathway Entrepreneurship (ENTRE)					
Pathway Completer		CTE Course 1	CTE Course 2	CTE Course 3	CTE Career Pathway Major
CTE Concentrator	CTE Major	BF10 Principles of Business and Finance or MM51 Marketing	ME11 Entrepreneurship I	ME12 Entrepreneurship II*	Work-Based Learning: CTE Apprenticeship, Cooperative Education (Co-op), Clinical or CTE Internship
Supplemental CTE Courses	BM10 Microsoft Word and PowerPoint BM20 Microsoft Excel				
Career & College Promise	Approved Career & College Promise Career Technical Education Pathway				
CTE Industry Recognized Credentials: WorkKeys National Career Readiness Certificate, Concepts of Entrepreneurship & Management; Venture Entrepreneurial; Expedition Entrepreneurship and Small Business					
CTE Careers Existing Today and Tomorrow: Small Business Owner, Strategic Management Professional, Social Entrepreneur, Opportunity Spotters					

*Denotes CTE Concentrator Course

<p align="center">CTE Career Cluster Business Management and Administration</p>					
<p align="center">CTE Career Pathway General Management (GMGT)</p>					
Pathway Completer		CTE Course 1	CTE Course 2	CTE Course 3	CTE Career Pathway Major
CTE Concentrator	CTE Major	BF10 Principles of Business and Finance	BB40 Business Management I	BB42 Business Management II*	Work-Based Learning: CTE Apprenticeship, Cooperative Education (Co-op), Clinical or CTE Internship
Supplemental CTE Courses	<p align="center">BM10 Microsoft Word and PowerPoint BM20 Microsoft Excel</p>				
Career & College Promise	<p align="center">Approved Career & College Promise Career Technical Education Pathway</p>				
<p>CTE Industry Recognized Credentials: WorkKeys National Career Readiness Certificate, Fundamentals Business Concepts (ASK-BF-CERT)</p>					
<p>CTE Careers Existing Today and Tomorrow: Account Manager, Business Consultant, Shareability Auditor, Global Business Navigator</p>					

*Denotes CTE Concentrator Course

CTE Career Cluster					
Business Management and Administration					
CTE Career Pathway					
Project Management (PMGT)					
Pathway Completer		CTE Course 1	CTE Course 2	CTE Course 3	CTE Career Pathway Major
CTE Concentrator	CTE Major	BF10 Principles of Business and Finance	CS11 Project Management I	CS12 Project Management II*	Work-Based Learning: CTE Apprenticeship, Cooperative Education (Co-op), Clinical or CTE Internship
Supplemental CTE Courses	BM10 Microsoft Word and PowerPoint BM20 Microsoft Excel				
Career & College Promise	Approved Career & College Promise Career Technical Education Pathway				
CTE Industry Recognized Credentials: WorkKeys National Career Readiness Certificate, TBD by Industry Partners					
CTE Careers Existing Today and Tomorrow: Project Management Consultant, Project Director, Industry Process Advisor, Project Designer					

*Denotes CTE Concentrator Course

CTE Career Cluster Education and Training					
CTE Career Pathway Teaching/Training (TETR)					
Pathway Completer		CTE Course 1	CTE Course 2	CTE Course 3	CTE Career Pathway Major
CTE Concentrator	CTE Major	FE60 Child Development	FE21 Teaching as a Profession I	FE22 Teach as a Profession II* (2 credit course)	FE22 includes a work-based learning experience. A concentrator is automatically a Pathway Major in this Cluster.
Supplemental CTE Courses	BM10 Microsoft Word and PowerPoint BM20 Microsoft Excel				
Career & College Promise	Approved Career & College Promise Career Technical Education Pathway				
CTE Industry Recognized Credentials: WorkKeys National Career Readiness Certificate, TBD by Post-Secondary Partners					
CTE Careers Existing Today and Tomorrow: Teacher, College Dean, Curriculum Developer, Superintendent, Virtual Learning Specialist, Avatar Instructor					

*Denotes CTE Concentrator Course

CTE Career Cluster Finance					
CTE Career Pathway Accounting (ACCT)					
Pathway Completer		CTE Course 1	CTE Course 2	CTE Course 3	CTE Career Pathway Major
CTE Concentrator	CTE Major	BM20 Microsoft Excel	BA10 Accounting I	BA20 Accounting II*	Work-Based Learning: CTE Apprenticeship, Cooperative Education (Co-op), Clinical or CTE Internship
Supplemental CTE Courses	BM10 Microsoft Word and PowerPoint BM20 Microsoft Excel				
Career & College Promise	Approved Career & College Promise Career Technical Education Pathway				
CTE Industry Recognized Credentials: WorkKeys National Career Readiness Certificate, Microsoft Office 2016 Excel Expert 77-726; Intuit QuickBooks Certified User					
CTE Careers Existing Today and Tomorrow: Certified Public Accountant, Tax Supervisor, Financial Accounting Director, Currency Adoption Specialist, Anonymity Advocates					

*Denotes CTE Concentrator Course

CTE Career Cluster Finance					
CTE Career Pathway Financial Securities and Investments (FSIN)					
Pathway Completer		CTE Course 1	CTE Course 2	CTE Course 3	CTE Career Pathway Major
CTE Concentrator	CTE Major	BF10 Principles of Business and Finance	BF21 Financial Planning I	BF22 Financial Planning II*	Work-Based Learning: CTE Apprenticeship, Cooperative Education (Co-op), Clinical or CTE Internship
Supplemental CTE Courses	BM10 Microsoft Word and PowerPoint BM20 Microsoft Excel				
Career & College Promise	Approved Career & College Promise Career Technical Education Pathway				
CTE Industry Recognized Credentials: WorkKeys National Career Readiness Certificate, Fundamentals Business Concepts (ASK-BF-CERT)					
CTE Careers Existing Today and Tomorrow: Financial Planner, Stockbroker, Crypto Currency Banker, Currency Adoption Specialist					

*Denotes CTE Concentrator Course

CTE Career Cluster Health Science					
CTE Career Pathway Healthcare Professional (HPCP)					
Pathway Completer		CTE Course 1	CTE Course 2	CTE Course 3	CTE Career Pathway Major
CTE Concentrator	CTE Major	HU40 Health Science I	HU42 Health Science II*	HN43 Nursing Fundamentals and Practicum (2 credit course)	Work-Based Learning: CTE Apprenticeship, Cooperative Education (Co-op), Clinical or CTE Internship
Supplemental CTE Courses	HU10 Foundations of Health Science BM10 Microsoft Word and PowerPoint BM20 Microsoft Excel				
Career & College Promise	Approved Career & College Promise Career Technical Education Pathway				
CTE Industry Recognized Credentials: WorkKeys National Career Readiness Certificate, Stop the Bleed, First Aid, OSHA 10-Hour General Industry (Healthcare) Certification, North Carolina Nurse Aide I					
CTE Careers Existing Today and Tomorrow: Registered Nurse Aid, Healthcare Implementation Consultant, Cradle to Grave Lifecycle Manager, Genetic Modification Designer, Organ Agent					

*Denotes CTE Concentrator Course

CTE Career Cluster
Hospitality & Tourism

CTE Career Pathway
Sports & Entertainment Marketing (SEMK)

Pathway Completer		CTE Course 1	CTE Course 2	CTE Course 3	CTE Career Pathway Major
CTE Concentrator	CTE Major	BF10 Principles of Business and Finance	MH31 Sports & Entertainment Marketing I	MH32 Sports & Entertainment Marketing II*	Work-Based Learning: CTE Apprenticeship, Cooperative Education (Co-op), Clinical or CTE Internship
Supplemental CTE Courses	BM10 Microsoft Word and PowerPoint BM20 Microsoft Excel				
Career & College Promise	Approved Career & College Promise Career Technical Education Pathway				
CTE Industry Recognized Credentials: WorkKeys National Career Readiness Certificate, Customer Service and Sales Certification, Advanced Customer Service and Sales Certification, Fundamental Marketing Concepts					
CTE Careers Existing Today and Tomorrow: International Marketing Manager, Communications & Events Specialist, Super Athlete Designer, Global Entertainment Strategist					

*Denotes CTE Concentrator Course

CTE Career Cluster Hospitality & Tourism					
CTE Career Pathway Travel & Tourism (TRTO)					
Pathway Completer		CTE Course 1	CTE Course 2	CTE Course 3	CTE Career Pathway Major
CTE Concentrator	CTE Major	MM51 Marketing	MH31 Sports & Entertainment Marketing I	MH42 Hospitality and Tourism*	Work-Based Learning: CTE Apprenticeship, Cooperative Education (Co-op), Clinical or CTE Internship
Supplemental CTE Courses	BM10 Microsoft Word and PowerPoint BM20 Microsoft Excel				
Career & College Promise	Approved Career & College Promise Career Technical Education Pathway				
CTE Industry Recognized Credentials: WorkKeys National Career Readiness Certificate, Certified Guest Service Professionals (CGSP), Advanced Customer Service and Sales Certification, Fundamental Marketing Concepts					
CTE Careers Existing Today and Tomorrow: Hospitality Information Specialist, Hotel Food & Beverage Manager, Revenue Analyst; Virtual Travel Advisor					

*Denotes CTE Concentrator Course

CTE Career Cluster
Hospitality & Tourism

CTE Career Pathway
Culinary Arts Applications (CULA)

Pathway Completer		CTE Course 1	CTE Course 2	CTE Course 3	CTE Career Pathway Major
CTE Concentrator	CTE Major	FH10 Culinary Arts & Hospitality I	FH11 Culinary Arts & Hospitality II Applications	FH13 Culinary Arts & Hospitality III*	FH14 Culinary Arts & Hospitality IV Applications Work-Based Learning: CTE Apprenticeship, Cooperative Education (Co-op), Clinical or CTE Internship
Supplemental CTE Courses	BM10 Microsoft Word and PowerPoint BM20 Microsoft Excel				
Career & College Promise	Approved Career & College Promise Career Technical Education Pathway				
CTE Industry Recognized Credentials: WorkKeys National Career Readiness Certificate, Certified Food Protection Manager (ANSI-Accredited), Certified Fundamental Cook, American Culinary Federation Culinary Arts Pre-PAC, American Association of Family & Consumer Sciences, ProStart Certificate of Achievement, National Restaurant Association Education Foundation					
CTE Careers Existing Today and Tomorrow: Culinary Operations Director, Sous Chef, Catering Coordinator, 3D Food Printer Chef					

*Denotes CTE Concentrator Course

CTE Career Cluster Hospitality & Tourism					
CTE Career Pathway Culinary Arts Internship (CULI)					
Pathway Completer		CTE Course 1	CTE Course 2	CTE Course 3	CTE Career Pathway Major
CTE Concentrator	CTE Major	FH10 Culinary Arts & Hospitality I	FH12 Culinary Arts & Hospitality II Internship	FH13 Culinary Arts & Hospitality III*	FH12 includes a work-based learning experience. A concentrator is automatically a Major in this Cluster
Supplemental CTE Courses	BM10 Microsoft Word and PowerPoint BM20 Microsoft Excel				
Career & College Promise	Approved Career & College Promise Career Technical Education Pathway				
CTE Industry Recognized Credentials: WorkKeys National Career Readiness Certificate, Certified Food Protection Manager (ANSI-Accredited), Certified Fundamental Cook, American Culinary Federation Culinary Arts Pre-PAC, American Association of Family & Consumer Sciences, ProStart Certificate of Achievement, National Restaurant Association Education Foundation					
CTE Careers Existing Today and Tomorrow: Culinary Specialist, Executive Chef, Cuisine Supervisor; Automated Meal Delivery Planner, Drone Food Manager					

*Denotes CTE Concentrator Course

CTE Career Cluster Human Services					
CTE Career Pathway Early Childhood Development & Services (EACH)					
Pathway Completer		CTE Course 1	CTE Course 2	CTE Course 3	CTE Career Pathway Major
CTE Concentrator	CTE Major	FE60 Child Development	FE11 Early Childhood Education I* (2 credit course)	FE12 Early Childhood Education II (2 credit course)	Work-Based Learning: CTE Apprenticeship, Cooperative Education (Co-op), Clinical or CTE Internship
Supplemental CTE Courses	BM10 Microsoft Word and PowerPoint BM20 Microsoft Excel				
Career & College Promise	Approved Career & College Promise Career Technical Education Pathway				
CTE Industry Recognized Credentials: WorkKeys National Career Readiness Certificate, CPR, First Aid, NC Early Childhood Credential Equivalency					
CTE Careers Existing Today and Tomorrow: Human Services Clinician, Child Psychiatrist, Nutrition Consultant, Health & Human Services Professional, Deficiency Analyzer, Data Contextualist, Precision Education Specialist					

*Denotes CTE Concentrator Course

CTE Career Cluster Information Technology					
CTE Career Pathway Cisco Network Engineering (CNEN)					
Pathway Completer		CTE Course 1	CTE Course 2	CTE Course 3	CTE Career Pathway Major
CTE Concentrator	CTE Major	BI12 CompTIA IT Fundamentals	II11 Cisco Network Engineering Technology I	II12 Cisco Network Engineering Technology II*	Work-Based Learning: CTE Apprenticeship, Cooperative Education (Co-op), Clinical or CTE Internship
Supplemental CTE Courses	BM10 Microsoft Word and PowerPoint BM20 Microsoft Excel				
Career & College Promise	Approved Career & College Promise Career Technical Education Pathway				
CTE Industry Recognized Credentials: WorkKeys National Career Readiness Certificate, CompTIA IT Fundamentals (FCO-U61), Cisco Certified Entry Networking Technician (CCENT), Microsoft MTA 98-366 (Networking Fundamentals)					
CTE Careers Existing Today and Tomorrow: Data Center Network Engineer, Network Security Engineer, Sensor Inventor, Sensor Designer, Sensor Engineer					

*Denotes CTE Concentrator Course

CTE Career Cluster Information Technology					
CTE Career Pathway Computer Engineering (COEN)					
Pathway Completer		CTE Course 1	CTE Course 2	CTE Course 3	CTE Career Pathway Major
CTE Concentrator	CTE Major	BI12 CompTIA IT Fundamentals	II21 Computer Engineering Technology I	II22 Computer Engineering Technology II*	Work-Based Learning: CTE Apprenticeship, Cooperative Education (Co-op), Clinical or CTE Internship
Supplemental CTE Courses	BM10 Microsoft Word and PowerPoint BM20 Microsoft Excel				
Career & College Promise	Approved Career & College Promise Career Technical Education Pathway				
CTE Industry Recognized Credentials: WorkKeys National Career Readiness Certificate, CompTIA IT Fundamentals (FCO-U61), CompTIA A+ 1001, CompTIA IT Fundamentals, CompTIA A+ 1002 MTA 98-349 Operating System Fundamentals					
CTE Careers Existing Today and Tomorrow: Cybersecurity Sales Engineer, Embedded Software Application Engineer, Data Transmission Optimizer					

*Denotes CTE Concentrator Course

CTE Career Cluster
Information Technology

CTE Career Pathway
Computer Science Principles (CSPR)

Pathway Completer		CTE Course 1	CTE Course 2	CTE Course 3	CTE Career Pathway Major
CTE Concentrator	CTE Major	BP41 Computer Science I	BP42 Computer Science II* or OA02 AP Computer Science Principles*	2A02 AP Computer Science A	Work-Based Learning: CTE Apprenticeship, Cooperative Education (Co-op), Clinical or CTE Internship
Supplemental CTE Courses	BI12 CompTIA IT Fundamentals BM10 Microsoft Word and PowerPoint BM20 Microsoft Excel				
Career & College Promise	Approved Career & College Promise Career Technical Education Pathway				
CTE Industry Recognized Credentials: WorkKeys National Career Readiness Certificate, MTA 98-381 Introduction to Programming Using Python					
CTE Careers Existing Today and Tomorrow: Software Developer, Intellectual Property Associate, Data Stream Organizer					

*Denotes CTE Concentrator Course

CTE Career Cluster Information Technology					
CTE Career Pathway Python Programming (PYPR)					
Pathway Completer		CTE Course 1	CTE Course 2	CTE Course 3	CTE Career Pathway Major
CTE Concentrator	CTE Major	BP14 Python Programming I	BPXX Python Programming II*	2A02 AP Computer Science	Work-Based Learning: CTE Apprenticeship, Cooperative Education (Co-op), Clinical or CTE Internship
Supplemental CTE Courses	BI12 CompTIA IT Fundamentals BM10 Microsoft Word and PowerPoint BM20 Microsoft Excel				
Career & College Promise	Approved Career & College Promise Career Technical Education Pathway				
CTE Industry Recognized Credentials: WorkKeys National Career Readiness Certificate, MTA 98-381 Introduction to Programming Using Python					
CTE Careers Existing Today and Tomorrow: Software Programmer, Virtual Property Associate, Automated Traffic Architect, Failure Point Assessor					

*Denotes CTE Concentrator Course

CTE Career Cluster Law, Public Safety, Corrections & Security					
CTE Career Pathway Emergency Management (EMMG)					
Pathway Completer		CTE Course 1	CTE Course 2	CTE Course 3	CTE Career Pathway Major
CTE Concentrator	CTE Major	IP11 Public Safety I	IP51 Emergency Management I*	IP52 Emergency Management II	Work-Based Learning: CTE Apprenticeship, Cooperative Education (Co-op), Clinical or CTE Internship
Supplemental CTE Courses	HU40 Health Science I BM10 Microsoft Word and PowerPoint BM20 Microsoft Excel				
Career & College Promise	Approved Career & College Promise Career Technical Education Pathway				
CTE Industry Recognized Credentials: WorkKeys National Career Readiness Certificate, NC Emergency Management I Certification, National Incident Management System, Community Emergency Response Team (C.E.R.T.) Certification					
CTE Careers Existing Today and Tomorrow: Public Safety Telecommunicator, Public Safety Risk Manager; Disaster Preparedness and Response Coordinator					

*Denotes CTE Concentrator Course

CTE Career Cluster Law, Public Safety, Corrections & Security					
CTE Career Pathway Public Safety (PUSA)					
Pathway Completer		CTE Course 1	CTE Course 2	CTE Course 3	CTE Career Pathway Major
CTE Concentrator	CTE Major	IP11 Public Safety I	IP12 Public Safety II*	IP51 Emergency Management I	Work-Based Learning: CTE Apprenticeship, Cooperative Education (Co-op), Clinical or CTE Internship
Supplemental CTE Courses	BM10 Microsoft Word and PowerPoint BM20 Microsoft Excel				
Career & College Promise	Approved Career & College Promise Career Technical Education Pathway				
CTE Industry Recognized Credentials: WorkKeys National Career Readiness Certificate					
CTE Careers Existing Today and Tomorrow: Central Intelligence Agency Supervisor, Planetary Protection Officer, Prison System Dismantlers, Driverless Operating System Traffic Controller					

*Denotes CTE Concentrator Course

CTE Career Cluster Manufacturing					
CTE Career Pathway Electronics (ELEC)					
Pathway Completer		CTE Course 1	CTE Course 2	CTE Course 3	CTE Career Pathway Major
CTE Concentrator	CTE Major	IM31 Electronics I	IM32 Electronics II*	IM33 Electronics III	Work-Based Learning: CTE Apprenticeship, Cooperative Education (Co-op), Clinical or CTE Internship
Supplemental CTE Courses	BM10 Microsoft Word and PowerPoint BM20 Microsoft Excel				
Career & College Promise	Approved Career & College Promise Career Technical Education Pathway				
CTE Industry Recognized Credentials: WorkKeys National Career Readiness Certificate, Electronics Technicians Association Certification: EM1, EM4, & EM2					
CTE Careers Existing Today and Tomorrow: Electronics Engineering Technician, Electronics Repair Specialist, Fusion System Integrator, Sensor Signal Engineer					

*Denotes CTE Concentrator Course

CTE Career Cluster Manufacturing					
CTE Career Pathway Metals Manufacturing (MEMA)					
Pathway Completer		CTE Course 1	CTE Course 2	CTE Course 3	CTE Career Pathway Major
CTE Concentrator	CTE Major	IM41 Metals Manufacturing Technology I	IM42 Metals Manufacturing Technology II*	IM42 Metals Manufacturing Technology III	Work-Based Learning: CTE Apprenticeship, Cooperative Education (Co-op), Clinical or CTE Internship
Supplemental CTE Courses	CS11 Project Management I BM10 Microsoft Word and PowerPoint BM20 Microsoft Excel				
Career & College Promise	Approved Career & College Promise Career Technical Education Pathway				
CTE Industry Recognized Credentials: WorkKeys National Career Readiness Certificate, NIMS Certification					
CTE Careers Existing Today and Tomorrow: Welder, Automation Auditor, Manufacturing Technology Engineer, Futuristic Metals Designer, Aquatic Welder					

*Denotes CTE Concentrator Course

**CTE Career Cluster
Marketing**

**CTE Career Pathway
Marketing Management (MMGT)**

Pathway Completer		CTE Course 1	CTE Course 2	CTE Course 3	CTE Career Pathway Major
CTE Concentrator	CTE Major	BF10 Principles of Business and Finance	MM51 Marketing	MA52 Marketing Applications*	Work-Based Learning: CTE Apprenticeship, Cooperative Education (Co-op), Clinical or CTE Internship
Supplemental CTE Courses	BM10 Microsoft Word and PowerPoint BM20 Microsoft Excel				
Career & College Promise	Approved Career & College Promise Career Technical Education Pathway				
CTE Industry Recognized Credentials: WorkKeys National Career Readiness Certificate, Customer Service and Sales Certification, Advanced Customer Service and Sales Certification, Fundamental Marketing Concepts					
CTE Careers Existing Today and Tomorrow: Inbound Marketing Specialist, Email Marketing Manager, Branding Specialist, Social Media Advertising Supervisor, Direct Consumer Consultant					

*Denotes CTE Concentrator Course

CTE Career Cluster Marketing					
CTE Career Pathway Sales (PRSM)					
Pathway Completer		CTE Course 1	CTE Course 2	CTE Course 3	CTE Career Pathway Major
CTE Concentrator	CTE Major	MM51 Marketing	MI31 Sales I	MI32 Sales II*	Work-Based Learning: CTE Apprenticeship, Cooperative Education (Co-op), Clinical or CTE Internship
Supplemental CTE Courses	BM10 Microsoft Word and PowerPoint				
Career & College Promise	Approved Career & College Promise Career Technical Education Pathway				
CTE Industry Recognized Credentials: WorkKeys National Career Readiness Certificate					
CTE Careers Existing Today and Tomorrow: Remote Sales Manager, Technical Sales Coordinator, Virtual Product Sales Advisor					

*Denotes CTE Concentrator Course

CTE Career Cluster Science, Technology, Engineering & Mathematics					
CTE Career Pathway Drafting Engineering (DREN)					
Pathway Completer		CTE Course 1	CTE Course 2	CTE Course 3	CTE Career Pathway Major
CTE Concentrator	CTE Major	IC61 Drafting I	IV22 Drafting II – Engineering*	IV23 Drafting III – Engineering	Work-Based Learning: CTE Apprenticeship, Cooperative Education (Co-op), Clinical or CTE Internship
Supplemental CTE Courses	BM10 Microsoft Word and PowerPoint				
Career & College Promise	Approved Career & College Promise Career Technical Education Pathway				
CTE Industry Recognized Credentials: WorkKeys National Career Readiness Certificate					
CTE Careers Existing Today and Tomorrow: Computer Aided Designer, Hospital and Healthcare Dismantler, Geoengineer, Mass Energy Storage Developers					

*Denotes CTE Concentrator Course

CTE Career Cluster Science, Technology, Engineering & Mathematics					
CTE Career Pathway Technology Engineering & Design (TEND)					
Pathway Completer		CTE Course 1	CTE Course 2	CTE Course 3	CTE Career Pathway Major
CTE Concentrator	CTE Major	TL04 Engineering Technology I	TL05 Engineering Technology II*	TL06 Engineering Technology III	Work-Based Learning: CTE Apprenticeship, Cooperative Education (Co-op), Clinical or CTE Internship
Supplemental CTE Courses	BM10 Microsoft Word and PowerPoint				
Career & College Promise	Approved Career & College Promise Career Technical Education Pathway				
CTE Industry Recognized Credentials: WorkKeys National Career Readiness Certificate, TBD by Industry Leaders					
CTE Careers Existing Today and Tomorrow: Mechanical Engineer, Industrial Engineer, Avionics Engineer					

*Denotes CTE Concentrator Course

CTE Career Cluster
Transportation, Distribution & Logistics

CTE Career Pathway
Automotive Services (AUTO)

Pathway Completer		CTE Course 1	CTE Course 2	CTE Course 3	CTE Career Pathway Major
CTE Concentrator	CTE Major	IT11 Automotive Service Fundamentals	IT16 Automotive Service I	IT17 Automotive Service II*	IT18 Automotive Service III Work-Based Learning: CTE Apprenticeship, Cooperative Education (Co-op), Clinical or CTE Internship
Supplemental CTE Courses	BM10 Microsoft Word and PowerPoint				
Career & College Promise	Approved Career & College Promise Career Technical Education Pathway				
CTE Industry Recognized Credentials: WorkKeys National Career Readiness Certificate, ASE Entry-Level Certification Maintenance and Light Repair; ASE Entry-Level Certification-Brakes; ASE Auto Maintenance and Light Repair Certification (G1); ASE Entry-Level Certification- Electrical/Electronic Systems					
CTE Careers Existing Today and Tomorrow: Auto Mechanic, Traffic Transitionists, Drone Repair Technician, Process Automation Auditor					

*Denotes CTE Concentrator Course

CTE Career Cluster Transportation, Distribution & Logistics					
CTE Career Pathway Aviation (AVIA)					
Pathway Completer		CTE Course 1	CTE Course 2	CTE Course 3	CTE Career Pathway Major
CTE Concentrator	CTE Major	IL77 Aviation I	IL78 Aviation II*	IK30 Aviation Manufacturing	Work-Based Learning: CTE Apprenticeship, Cooperative Education (Co-op), Clinical or CTE Internship
Supplemental CTE Courses	IC61 Drafting I (This course is essential and should be taken prior to starting the Aviation Pathway) BM10 Microsoft Word and PowerPoint				
Career & College Promise	Approved Career & College Promise Career Technical Education Pathway				
CTE Industry Recognized Credentials: WorkKeys National Career Readiness Certificate, TBD by Industry Partners					
CTE Careers Existing Today and Tomorrow: Aviation Technician, Experimental Test Pilot, Aviation Safety Inspector, Avionics Engineer, Drone Repair Expert					

*Denotes CTE Concentrator Course

CTE Career Cluster Transportation, Distribution & Logistics					
CTE Career Pathway Collision Repair (COLL)					
Pathway Completer		CTE Course 1	CTE Course 2	CTE Course 3	CTE Career Pathway Major
CTE Concentrator	CTE Major	IT30 Collision Repair Fundamentals	IT31 Collision Repair I	IT32 Collision Repair II Non-Structural* or IT33 Collision Repair II Refinishing*	Work-Based Learning: CTE Apprenticeship, Cooperative Education (Co-op), Clinical or CTE Internship
Supplemental CTE Courses	BM10 Microsoft Word and PowerPoint				
Career & College Promise	Approved Career & College Promise Career Technical Education Pathway				
CTE Industry Recognized Credentials: WorkKeys National Career Readiness Certificate, I-CAR Platinum- Non-Structural Technician					
CTE Careers Existing Today and Tomorrow: Body Shop Repair Technician, Digital Refinishing Processor, eVTOL Designer					

*Denotes CTE Concentrator Course

CTE Career Cluster Transportation, Distribution & Logistics					
CTE Career Pathway Diesel Technology (DISL)					
Pathway Completer		CTE Course 1	CTE Course 2	CTE Course 3	CTE Career Pathway Major
CTE Concentrator	CTE Major	IL50 Diesel Technology I	IL51 Diesel Technology II*	IL52 Diesel Technology III	Work-Based Learning: CTE Apprenticeship, Cooperative Education (Co-op), Clinical or CTE Internship
Supplemental CTE Courses	BM10 Microsoft Word and PowerPoint				
Career & College Promise	Approved Career & College Promise Career Technical Education Pathway				
CTE Industry Recognized Credentials: WorkKeys National Career Readiness Certificate, ASE Technician Certification in Truck Equipment (E1-E3) and Medium and Heavy Truck (T1-T8)					
CTE Careers Existing Today and Tomorrow: Diesel Technician, Heavy Equipment Operator, Paving/Surface Equipment Operators, Self-Driving Truck Mechanic					

*Denotes CTE Concentrator Course

Academy of Biomedical Technology and Specialized Health Sciences

Location: The Academy at Smith

<p align="center">CTE Career Cluster Health Science</p>					
<p align="center">CTE Career Pathway PLTW Biotechnology Research and Development (PLWB)</p>					
Pathway Completer		CTE Courses 9 th Grade	CTE Course 10 th Grade	CTE Course 11 th Grade	CTE Career Pathway Course 12 th Grade
CTE Concentrator	CTE Major	HU10 Foundations of Health Sciences and HP70 PLTW Principles of Biomedical Sciences	HP71 PLTW Human Body Systems	HP72 PLTW Medical Interventions*	HP73 PLTW Biomedical Innovations Work-Based Learning: CTE Apprenticeship or CTE Internship
Supplemental CTE Courses	<p align="center">HU40 Health Science I HU42 Health Science II (The above supplemental courses are essential for Block Schedules and should be taken in sequential order.)</p>				
Career & College Promise	<p align="center">Approved Career & College Promise Career Technical Education Pathway</p>				
<p>CTE Industry Recognized Credentials: CPR/AED; First Aid</p>					
<p>CTE Careers Existing Today and Tomorrow: Genetics Expert, Super Baby Designer, Body Modification Ethicist</p>					

*Denotes CTE Concentrator Course

Academy of Biomedical Technology and Specialized Health Sciences

Location: The Academy at Smith

CTE Career Cluster Health Science					
CTE Career Pathway Pharmacy Technician (PHTC)					
Pathway Completer		CTE Course 9 th Grade	CTE Course 10 th Grade	CTE Course 11 th Grade	CTE Career Pathway Course 12 th Grade
CTE Concentrator	CTE Major	HU10 Foundations of Health Science	HU40 Health Science I	HU42 Health Science II*	HH32 Pharmacy Technician Work-Based Learning: CTE Apprenticeship or CTE Internship
Supplemental CTE Courses	HP70 PLTW Principles of Biomedical Sciences HP71 PLTW Human Body Systems HP72 PLTW Medical Interventions (The above supplemental courses are essential for Block Schedules and should be taken in sequential order.)				
Career & College Promise	Approved Career & College Promise Career Technical Education Pathway				
CTE Industry Recognized Credentials: Stop the Bleed; First Aid; OSHA 10-Hour General Industry (Healthcare) Certification; North Carolina Nurse Aide I; Cpht Certified Pharmacy Technician					
CTE Careers Existing Today and Tomorrow: Registered Nurse Aid; Pharmacy Technician, Healthcare Implementation Consultant, Cradle to Grave Lifecycle Manager, Genetic Modification Designer, Organ Agent					

*Denotes CTE Concentrator Course

Academy of Biomedical Technology and Specialized Health Sciences

Location: The Academy at Smith

CTE Career Cluster Human Services					
CTE Career Pathway Counseling and Mental Health (CMHC)					
Pathway Completer		CTE Course 9 th Grade	CTE Course 10 th Grade	CTE Course 11 th Grade	CTE Career Pathway Course 12 th Grade
CTE Concentrator	CTE Major	HU10 Foundations of Health Science	FC13 Counseling and Mental Health I	FC14 Counseling and Mental Health II*	Work-Based Learning: CTE Apprenticeship or CTE Internship
Supplemental CTE Courses	Health Science I Health Science II (The above supplemental courses are essential for Block Schedules and should be taken in sequential order.)				
Career & College Promise	Approved Career & College Promise Career Technical Education Pathway				
CTE Industry Recognized Credentials: Mental Health Technician					
CTE Careers Existing Today and Tomorrow: Behavioral Health Specialist, Outpatient Therapist, Psychologist, Sociologist, Quantified Self-Assessment Auditor					

*Denotes CTE Concentrator Course

Academy of Computer and Information Science

Location: Kearns Academy

CTE Career Cluster Information Technology					
CTE Career Pathway Cybersecurity (CBSY)					
Pathway Completer		CTE Course 9 th Grade	CTE Course 10 th Grade	CTE Course 11 th Grade	CTE Career Pathway Course 12 th Grade
CTE Concentrator	CTE Major	BP41 Computer Science Principles I	BC10 Cybersecurity Essentials	BN31 Network Security I*	BN32 Network Security II Work-Based Learning: CTE Apprenticeship, Cooperative Education (Co-op) or CTE Internship
Supplemental CTE Courses	BP42 Computer Science Principles II or OA02 AP Computer Science Principles BI12 CompTIA IT Fundamentals (The above supplemental courses are essential for Block Schedules and should be taken in sequential order.)				
Career & College Promise	Approved Career & College Promise Career Technical Education Pathway				
CTE Industry Recognized Credentials: CompTIA IT Fundamentals; CompTIA Security+					
CTE Careers Existing Today and Tomorrow: Cybersecurity Sales Engineer, Embedded Software Application Engineer, Intellectual Property Associate, Data Stream Organizer					

*Denotes CTE Concentrator Course

Academy of Computer and Information Science

Location: Kearns Academy

CTE Career Cluster Information Technology					
CTE Career Pathway Artificial Intelligence (AI)					
Pathway Completer		CTE Course 9 th Grade	CTE Course 10 th Grade	CTE Course 11 th Grade	CTE Career Pathway Course 12 th Grade
CTE Concentrator	CTE Major	BP41 Computer Science Principles I	Artificial Intelligence I	Artificial Intelligence II*	Work-Based Learning: CTE Apprenticeship or CTE Internship
Supplemental CTE Courses	BP42 Computer Science Principles II or OA02 AP Computer Science Principles BI12 CompTIA IT Fundamentals BP14 Python Programming (The above supplemental courses are essential for Block Schedules and should be taken in sequential order.)				
Career & College Promise	Approved Career & College Promise Career Technical Education Pathway				
CTE Industry Recognized Credentials: MTA 98-381 Introduction to Programming Using Python; Artificial Intelligence Engineering (AIE)					
CTE Careers Existing Today and Tomorrow: Software Developer, Intellectual Property Associate, Application Development Leader, Machine Learning Engineer					

*Denotes CTE Concentrator Course

Academy of Computer and Information Science

Location: Northeast HS

CTE Career Cluster Information Technology					
CTE Career Pathway Cybersecurity (CBSY)					
Pathway Completer		CTE Course 9 th Grade	CTE Course 10 th Grade	CTE Course 11 th Grade	CTE Career Pathway Course 12 th Grade
CTE Concentrator	CTE Major	BP41 Computer Science Principles	BC10 Cybersecurity Essentials	BN31 Network Security I*	BN32 Network Security II Work-Based Learning: CTE Apprenticeship, Cooperative Education (Co-op) or CTE Internship
Supplemental CTE Courses	BP42 Computer Science Principles II or OA02 AP Computer Science Principles BI12 CompTIA IT Fundamentals (The above supplemental courses are essential for Block Schedules and should be taken in sequential order.)				
Career & College Promise	Approved Career & College Promise Career Technical Education Pathway				
CTE Industry Recognized Credentials: CompTIA IT Fundamentals; CompTIA Security+					
CTE Careers Existing Today and Tomorrow: Cybersecurity Sales Engineer, Embedded Software Application Engineer, Information Technology Specialist, Cloud Security Operations Engineer					

*Denotes CTE Concentrator Course

Academy of Computer and Information Science

Location: Northeast HS

CTE Career Cluster Information Technology					
CTE Career Pathway Artificial Intelligence (AI)					
Pathway Completer		CTE Course 9 th Grade	CTE Course 10 th Grade	CTE Course 11 th Grade	CTE Career Pathway Course 12 th Grade
CTE Concentrator	CTE Major	BP41 Computer Science Principles I	Artificial Intelligence I	Artificial Intelligence II*	Work-Based Learning: CTE Apprenticeship or CTE Internship
Supplemental CTE Courses	BP42 Computer Science Principles II or OA02 AP Computer Science Principles BI12 CompTIA IT Fundamentals BP14 Python Programming (The above supplemental courses are essential for Block Schedules and should be taken in sequential order.)				
Career & College Promise	Approved Career & College Promise Career Technical Education Pathway				
CTE Industry Recognized Credentials: MTA 98-381 Introduction to Programming Using Python; Artificial Intelligence Engineering (AIE)					
CTE Careers Existing Today and Tomorrow: Software Developer, Intellectual Property Associate, Analytics Expert, Sustainability Integration Expert					

*Denotes CTE Concentrator Course

Academy of Advanced Manufacturing and Engineering

Location: Ben L. Smith HS

<p align="center">CTE Career Cluster Science, Technology, Engineering & Mathematics</p>						
<p align="center">CTE Career Pathway PLTW Engineering (PLWE)</p>						
Pathway Completer		CTE Course 9 th Grade	CTE Course 10 th Grade	CTE Course 11 th Grade	CTE Career Pathway Course 12 th Grade	
CTE Concentrator	CTE Major	TP11 PLTW Introduction to Engineering Design	TP12 PLTW Principles of Engineering	TP27 PLTW Environmental Sustainability*	TP31 PLTW Engineering Design & Development Work-Based Learning: CTE Apprenticeship or CTE Internship	
Supplemental CTE Courses	<p align="center">BM10 Microsoft Word and PowerPoint</p> <p align="center">(The above supplemental courses are essential for Block Schedules and should be taken in sequential order.)</p>					
Career & College Promise	<p align="center">Approved Career & College Promise Career Technical Education Pathway</p>					
<p>CTE Industry Recognized Credentials: OSHA 10-Hour Industry Certification</p>						
<p>CTE Careers Existing Today and Tomorrow: Mechanical Engineer, CAD Designer, Product Developer; Systems Transitionists, Efficiency Optimizer, Mass Energy Storage Developer</p>						

*Denotes CTE Concentrator Course

Academy of Advanced Manufacturing and Engineering

Location: Ben L. Smith HS

CTE Career Cluster Manufacturing					
CTE Career Pathway SREB Integrated Productions (INPT)					
Pathway Completer		CTE Course 9 th Grade	CTE Course 10 th Grade	CTE Course 11 th Grade	CTE Career Pathway Course 12 th Grade
CTE Concentrator	CTE Major	TR11 SREB AC Advanced Technology for Design and Production	TR12 SREB AC Systems of Advanced Technology	TR13 SREB AC Mechatronic Systems for Advanced Production*	TTR14 SREB AC Design for the Production of Advanced Products Work-Based Learning: CTE Apprenticeship or CTE Internship
Supplemental CTE Courses	BM10 Microsoft Word and PowerPoint (The above supplemental courses are essential for Block Schedules and should be taken in sequential order.)				
Career & College Promise	Approved Career & College Promise Career Technical Education Pathway				
CTE Industry Recognized Credentials: OSHA 10-Hour Industry Certification (optional credential offered anytime)					
CTE Careers Existing Today and Tomorrow: Electrical Engineer, Automation Engineer, Ceramics and Optical Expert, Mechatronics Hardware Engineer					

*Denotes CTE Concentrator Course

Academy of Transportation, Distribution, and Logistics

Location: Western Guilford HS

CTE Career Cluster Transportation, Distribution & Logistics					
CTE Career Pathway Drone Technology (DRON)					
Pathway Completer		CTE Course 9 th Grade	CTE Course 10 th Grade	CTE Course 11 th Grade	CTE Career Pathway Course 12 th Grade
CTE Concentrator	CTE Major	BP41 Computer Science Principles I	ID11 Drone Technology I	ID12 Drone Technology II*	Work-Based Learning: CTE Apprenticeship, Cooperative Education (Co-op), Clinical or CTE Internship
Supplemental CTE Courses	BP14 Python Programming I BM10 Microsoft Word and PowerPoint (The above supplemental courses are essential for Block Schedules and should be taken in sequential order.)				
Career & College Promise	Approved Career & College Promise Career Technical Education Pathway				
CTE Industry Recognized Credentials: FAA 14 CFR Part 107					
CTE Careers Existing Today and Tomorrow: Drone Engineer, Drone Docking Designer, Operator Certification Specialist, Drone Traffic Optimizer					

*Denotes CTE Concentrator Course

As of 3/12/2021

Academy of Transportation, Distribution, and Logistics

Location: Western Guilford HS

<p align="center">CTE Career Cluster Transportation, Distribution & Logistics</p>					
<p align="center">CTE Career Pathway Global Logistics & Supply Chain Management (GLSC)</p>					
Pathway Completer		CTE Course 9 th Grade	CTE Course 10 th Grade	CTE Course 11 th Grade	CTE Career Pathway Course 12 Grade
CTE Concentrator	CTE Major	IK41 SREB AC Introduction to Logistics	IK42 SREB AC Functional Areas in Logistics	IK43 SREB AC Global Logistics Management*	IK 44 SREB AC Logistics and Supply Chain Management Work-Based Learning: CTE Apprenticeship or CTE Internship
Supplemental CTE Courses	BM20 Microsoft Excel (The above supplemental courses are essential for Block Schedules and should be taken in sequential order.)				
Career & College Promise	Approved Career & College Promise Career Technical Education Pathway				
CTE Industry Recognized Credentials: OSHA Forklift Certification, Certified Technician-Supply Chain Automation (CTSCA): CTSCA-EM Equipment Maintenance, CTSCA-ER Equipment Repair, CTSCA-NR Network Repair					
CTE Careers Existing Today and Tomorrow: Trade Compliance Supervisor, Logistics Engineer, Supply Chain Manager, Transportation Manager, Automated Traffic Architect, Driverless Operating System Engineer					

*Denotes CTE Concentrator Course

As of 3/12/2021