ARTIFICIAL INTELLIGENCE & CYBER SECURITY PATHWAYS

CTE Advocacy. Increased Funding. Redesign. Partnerships.

Software Developers

Jobs projected to grow

+22%

between 2019-2020 FASTEST on average for all occupations Source: U.S. Labor Bureau of Statistics

Women in Tech

North Carolina ranks #1 STATE Source: The Economic Developme

Source: The Economic Developmen Partnership of North Carolina

Cybersecurity

3.5 million

jobs globally by 2021 (up from 1 million in 2014)

Source: New York Times, 2019



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learning spaces

Artificial Intelligence (AI)							
	9th Grade	10th Grade	11th Grade	12th Grade			
PATHWAY COMPLETER	CTE Course	CTE Course	CTE Course	CTE Career Course			
CTE CONCENTRATOR	CC11 Microsoft Excel	CP10 Python Programming I or BM21 Introduction to Data Science	CP11 Python Programming II* or BP20 SAS Base Programming*	CA10 Artificial Intelligence I Work-Based Learning: CTE Apprenticeship, Cooperative Education (Co-op), Clinical or CTE Internship			
CTE MAJOR							
SUPPLEMENTAL CTE COURSES	CS20 Computer Science I or 0A02 AP Computer Science Principles						
CAREER & COLLEGE PROMISE	Recommended Career & College Promise (CCP) Pathway: College Transfer Pathway Leading to the Associate in Science Degree						
CTE Industry Recognized Credent Certified Specialist Programming		the second se	Certified Associate in Py	thon Programming; SAS			
Certified Specialist Programming CTE Careers Existing Today and Machine Learning Engineer, Robe	Tomorrow: Software Dev		erty Associate, Application	on Development Leade			

CTE CAREER PATHWAY Cybersecurity (CBSY)							
	9th Grade	10th Grade	11th Grade	12th Grade			
PATHWAY COMPLETER	CTE Course	CTE Course	CTE Course	CTE Career Course			
CTE CONCENTRATOR	CI35 PLTW Cybersecurity	BN20 Network Administration I	BN22 Network Administration II* and CI30 Cybersecurity I	Cl31 Cybersecurity II* Work-Based Learning: CTE Apprenticeship, Cooperative Education (Co-op), Clinical or CTE Internship			
CTE MAJOR							
SUPPLEMENTAL CTE COURSES	CS20 Computer Science I or 0A02 AP Computer Science Principles						
CAREER & COLLEGE PROMISE	Recommended Career & College Promise (CCP) Pathway: Cyber Crime and Digital Forensics Certificate						
CTE Industry Recognized Credentials: CompTIA Network+; CompTIA Security+							
CTE Careers Existing Today and Tomorrow: Cybersecurity Sales Engineer, Embedded Software Application Engineer, Intellectual Property Associate, Data Stream Organizer							

CTE...the Ultimate Classroom to Career Experience!

learning experience

re-imagine the

*Denotes CTE Concentrator Course