Pathways at a Glance

Schools should refer to the Kentucky Department of Education's approved Programs of Study (POS) for pathway completion requirements.

Computer Programming
CIP Code: 11.0201.01

Introduction to Programming	*110201*
Cybersecurity I	110230
CIT 105 -Computer Literacy	*110110*
CIT 120 - Computational Thinking	*110251*
CIT 144 - Python I	*110220*
CIT 149 - Java I	110221
Introduction to Artificial Intelligence (Aligned to KY POS course Project-Based Programming)	110226

Network Administration
CIP Code: 11.0901.01

CIT 105 -Computer Literacy	*110110*
CIT 111 - Computer Hardware & Software Maintenance	*110101*
CIT 120 - Computational Thinking	*110251*
CIT 160 - Introduction to Network Concepts	*110901*
Introduction to Artificial Intelligence (Aligned to KY POS course Project-Based Programming)	110226
Cybersecurity I	110230

Data Science
CIP Code: 11.0802.00

Data Science Principles	*110204*
CIT 105 -Computer Literacy	*110110*
***CIT 170 - Introduction to Database Design*	*110211*
CIT 120 - Computational Thinking	*110251*
CIT 144 - Python I	110220
Introduction to Programming	*110201*
Introduction to Artificial Intelligence (Aligned to KY POS course Project-Based Programming)	*110226*

Network Security
CIP Code: 11.1003.00

Cybersecurity I	110230
CIT 105 -Computer Literacy	*110110*
CIT 111 - Computer Hardware and Software Maintenance	*110101*
CIT 160 - Introduction to Network Concepts	*110901*
CIT 180 - Security Foundations	*110912*
Introduction to Artificial Intelligence (Aligned to KY POS course Project-Based Programming)	110226

* Inclusion of courses with an asterisk shown on this document in a pathway sequence require district adoption and Kentucky Department of Education (KDE) approval of a pathway modification. We Lead CS will support districts interested in pursuing pathway modifications through this process.

**Planning for course to be available in 2027-28.

Courses highlighted in green represent the WLCS-recommended courses and sequencing for the pathway.

Cybersecurity
CIP Code: 14.0902.00

Cybersecurity I	*110230*
Cybersecurity II (Cyber Science)	*110224*
CIT 105 -Computer Literacy	*110110*
CIT 160 - Introduction to Network Concepts	*110901*
CIT 180 - Security Foundations	*110912*