

## Data Analytics Degree Pathway

NSF ATE Data Analytics Technician Advancement (DATA) Principal

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High School Dual Enrollment through College Credit Plus IT Explores Program

Transfer Sequence to Kent State University



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# Early career exploration for high school students interested in IT



The rapidly growing IT industry is expected to outpace the overall economy’s growth in the coming years, and demand for skilled workers in a variety of roles will be high. Columbus State Community College is offering a sequence of CCP courses for high school students to explore the foundations of information technology. Through the program, high school students earn college credit while getting first-hand experience in their potential field of interest. Special events and activities outside the classroom provide further career exploration opportunities.

## Courses

All courses are currently offered online and will be taught by Columbus State faculty. Columbus State has been a regional leader in online education since 1997 when we launched our first online class. We were the first college in Ohio approved by the Higher Learning Commission to offer degrees entirely online. Our faculty are solely focused on student learning and success and equipped with the tools and training they need to inspire and engage students online. Students can expect a high-quality experience that’s also safe and flexible.

	Exploration	Dedicated Pathway	General Education (Optional Add-On)
Semester 1	CSCI 1101	CSCI 1101 CSCI 1103**	ENGL 1100
Semester 2	CSCI 1103**	CSCI 1145 CSCI 1320	SBS XXXX or HUM XXXX*
Semester 3	CSCI 1145	CSCI XXXX* CSCI XXXX*	SBS XXXX or HUM XXXX*
Semester 4	CSCI 1320	CSCI XXXX* CSCI XXXX*	NAT XXXX*

\*Please meet with your advisor to discuss what options are available.  
\*\*Requires placement into MATH1075 or higher to be eligible for course.

## Additional Events

Students will have the opportunity to learn about academic programs and transfer opportunities, engage with Columbus State Career Services for guidance, and speak directly with professionals in the IT field.

**Next Steps:** If you have a student who is interested in taking one or more of these courses, please have them contact [CCPadvising@csc.edu](mailto:CCPadvising@csc.edu)

**Appendix 1**  
**SUGGESTED SEMESTER SEQUENCE**

Columbus State Community College: Associate of Applied Science in Computer Science, Data Analytics - Analysis and Visualization

Kent State University: Information Technology (BSIT), Application Development, Cybersecurity and Forensics, Database Design and Administration, Health Information Technology, Integrated Information Technology, Internet/Multimedia, or Networking Concentration

Course Subject and Title	Credit Hours	Upper Division	Notes on Transfer Coursework to Kent State
<b>Semester One: [13 Credit Hours] Columbus State Community College</b>			
CSCI 1103 Intro to Prog Logic	3		CS 1X000
STAT 1400 Statistical Concepts for Business	3		MATH 10041 (KMCR)
COLS 1100 First Year Experience Seminar	1		TRAN 1X000
ENGL 1100 Composition I	3		ENG 11011 (KCP1)
CSCI 1320 Database Fundamentals	3		CS 1X000
<b>Semester Two: [15 Credit Hours] Columbus State Community College</b>			
CSCI 1420 Analytical Foundations I	2		TRAN 1X000
CSCI 1421 Analytical Foundations II	2		TRAN 1X000
CSCI 1511 Python Programming	3		CIS 1X000
ITST 1130 Cloud Foundations	3		TRAN 1X000
MATH 1146 College Algebra Plus	5		MATH 11010 (KMCR)
<b>Summer Semester: [6 Credit Hours] Columbus State Community College</b>			
CSCI 1145 HTML	3		IT 11006
ECON 2200 - Microeconomics	3		ECON 22060 (KSS)
<b>Semester Three: [15-17 Credit Hours] Columbus State Community College</b>			
CSCI 2420 Data Analysis I	2		TRAN 2X000
CSCI 2421 Data Analysis II	2		TRAN 2X000
Basic Related Electives (could also choose additional MATH or STAT course)	3-5		
HUM XXXX (Select from List)*	3		(KHUM/KFA)
NAT XXXX (select from list)	3		(KBS)
<b>Semester Four: [13-15 Credit Hours] Columbus State Community College</b>			
CSCI 2422 Data Visualization I	2		TRAN 2X000
CSCI 2423 Data Visualization II	2		TRAN 2X000
ENGL 2767 Comp II: Writing About Science/Technology (Recommended for transfer)** or COMM 2204 Technical Writing	3		ENG 21011 (KCP2) or ENG 20002
Technical Elective	3-4		
CSCI 2802 CSCI Seminar AND CSCI 2902 CSCI Practicum or CSCI 2999 Mobile Capstone (Recommended for transfer)***	3		IT 21092 or IT 21009
<b>60-64 Total Credit Hours to Graduate with the AAS Degree from Columbus State Community College</b>			

Course Subject and Title	Credit Hours	Upper Division	Notes on Transfer Coursework to Kent State
<b>Semester Five: [18 Credit Hours] Kent State University</b>			
IT 11002 Visual Basic Programming or IT 13000 Applied Security Essentials	3		
IT 11004 Survey of Information Technology	3		
IT 11005 Introduction to Operating Systems and Networking Technology	3		
IT 12000 Intermediate Office Productivity Apps	3		
Kent Core Social Sciences – Not ECON (KSS)	3		@
Kent Core Humanities & Fine Arts (KHUM/KFA)*	3		@
<b>Semester Six: [16-17 Credit Hours] Kent State University</b>			
IT 11009 Computer Assembly and Configuration	4		
IT 21010 Workgroup Productivity Software	3		
Kent Core Basic Sciences w/ Lab (KBS, KLAB)	3-4		@
Concentration Requirement	3	■	
Concentration Requirement	3	■	
<b>Summer [13 Credit Hours] Kent State University</b>			
IT 21007 Cyber Ethics in Information Technology	3		
IT 21002 Network Setup and Configuration	4		
Kent Core Humanities & Fine Arts (KHUM/KFA)*	3		@
Concentration Requirements	3	■	
<b>Semester Seven: [18 Credit Hours] Kent State University</b>			
IT 36308 Ergonomics in Computer Systems	3	■	
IT 36318 Survey of Information Security, Internet Fraud and Computer Forensics (WIC)	3	■	
TAS 37900 Technical and Applied Studies Cornerstone	3	■	
Kent Core Additional (KADL)	3		@
Concentration Requirements	3	■	
IT Elective	3		
<b>Semester Eight: [18 Credit Hours] Kent State University</b>			
IT 36340 Help Desk Support	3	■	
IT 42000 Social Media Security	3	■	
IT 36314 Seminar in Emerging Computer and Information Technologies	3	■	
TAS 47999 Technical and Applied Studies Capstone (ELR)	3	■	
Concentration Requirements	6	■	
<b>143-148 Total Credit Hours to Graduate with the BS, including transfer coursework, from Kent State University</b>			

@ Course may be taken at Columbus State Community College and transferred to Kent State. However, please be aware of Kent State's residence policy, which can be found in the [Kent State University Catalog](#). Once an associate degree is earned, additional courses taken at CSCC may not be eligible for financial aid. Please see Financial Aid for details.

\*Minimum one course must be selected from the Humanities in Arts and Sciences area (KHUM), and minimum one course must be selected from the Fine Arts area (KFA). KFA requirement cannot be completed at Stark State College.

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Version approved for use by the Office of General Counsel without changes. Any changes to these terms must be submitted to OGC for further review as to form and legal sufficiency before execution.

\*\* ENGL 2767/ENG 21011 is required for the BSIT. Students who do not complete this course will be required to complete it upon transfer to Kent State University.

\*\*\* CSCI 2999/IT 21009 is required for the BSIT. Students who do not complete this course will be required to complete it upon transfer to Kent State University.

Students must successfully [complete one domestic diversity course \(DIVD\)](#) and [one global diversity course \(DIVG\)](#). Please consult with a Kent State Academic Advisor.

Requirements to graduate with the BS degree program: To graduate, students must have minimum 120 credits hours, 39 upper-division credits hours of coursework, a minimum 2.00 major GPA and minimum 2.00 cumulative GPA. They must also fulfill an approved experiential learning experience, a two-course diversity requirement (domestic and global), complete a writing intensive course with a minimum C (2.000) grade. More specific graduation requirement information can be found in the Academic Policies section of the Kent State University Catalog ([www.kent.edu/catalog](http://www.kent.edu/catalog)).

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It is recommended that students intending to pursue the Bachelor of Science in Information Technology degree in Information Technology through Kent State University consult with academic advisors at both Columbus State Community College and Kent State University.