

TRANSFER PATHWAY GUIDE

FOR

Associate in Applied Science in Cybersecurity at Kentucky Community and Technical College System (KCTCS) to Kentucky State University (KSU) Bachelor of Science Degree in Cybersecurity – Any Track with General Education Certification.

Effective January 2025

Overview

Completion of the following curriculum will satisfy the requirements for Associate in Applied Science Cybersecurity program at the Kentucky Community and Technical College System and leads to the Bachelor of Science degree in Cybersecurity at Kentucky State University.

Admission Requirements

Successful completion of all coursework for the AAS degree in Cybersecurity at Kentucky Community and Technical College System. [Admissions process for KCTCS](#)

Degree Requirements

This proposed transfer pathway is for KCTCS students that have successfully completed an AAS degree in Cybersecurity. If a KCTCS student has not completed all coursework requirements to satisfy the AAS degree and/or course requirements to be considered general education certified, transfer of successfully completed courses will be at the discretion of the departmental representatives of KSU.

General Transfer Requirements

Prospective transfer students will contact the office of Registrar at Kentucky State University to obtain information that will be helpful for their transfer, such as the process for applying to the institution, relevant deadlines, and scholarship information. <https://www.kysu.edu/student-success-and-retention/transfer-students/index.php>

KCTCS Cybersecurity AAS TO KSU BS Cybersecurity CHECKLIST

Kentucky Community and Technical College System

Category 1: KCTCS General Education Requirements (15-33 hours)

KCTCS Course	Course or Category	Credits	KSU Course	Completed
ENG 101		3	Gen Ed Cert	
MAT 150		3	Gen Ed Cert	
Heritage/Humanities		3	Gen Ed Cert	
Social/Behavioral		3	Gen Ed Cert	
Natural Science		3	Gen Ed Cert	
	Subtotal General Education Courses	15		
Students must complete any unfulfilled general education core requirements at KCTCS prior to transferring to KSU or take additional general education courses at KSU and reverse transfer to KCTCS to complete general education certification. (see last page for chart)				
	Heritage/Humanities (category not taken above)	3		
	Social/Behavioral (two disciplines must be represented and different from Humanities)	6		
	Quantitative Reasoning/Natural Science	3		
	Natural science lab is needed to fulfil general education certification	(1)		
	Total Additional General Education Courses needed for Gen Ed Cert (dependent on AAS track completed)			

**Minimum grade of "C" required

Category 2: KCTCS AAS Requirements for Cybersecurity degree with any Track

KCTCS Course	Course or Category	Credits	KSU Course	
CYS 100	Cybersecurity Orientation	1		
CYS 101	Cybersecurity Fundamentals	3		
CYS 130	Intro to Cyber Forensics	3		
CYS 140	Data Security	3		
CYS 145	Foundations of Cybersecurity Systems	3		
CYS 150	Secure Software Development I	3		
CYS 202	Human, Organizational, and Societal Security	3		
CYS 245	Advanced Cybersecurity	3		
CYS 285	Cryptography	3		
CYS 299	Capstone	3		
ENG 102	Writing II	3	Gen Ed Cert	
	Oral Communication	3	Gen Ed Cert	
	Technical Core Subtotal	34		

Category 3: KCTCS AAS Tracks for Cybersecurity

KCTCS Course	Track	Credits
	Secure Coding Track	12 – 15
	Network Defense Track	12 – 15
	Cyber Forensics Track	12 – 15
	Cyber Science Track	15 - 18
	Cybersecurity Track Subtotal	12 - 18
KCTCS AAS Cybersecurity Credit Hour Summary		
	Track Subtotal	12 -18
	General Education Subtotal	15
	Technical Core Subtotal	34
	Total AAS Requirement Courses²	61 - 67

² Students demonstrate computer/digital literacy skills through completion of the Cybersecurity AAS degree.

Kentucky State University

Major Requirements for BS Cybersecurity

KSU Course	Course	Credits	KCTCS Course
Completion of KCTCS's Cybersecurity Degree - Any track		61-67	
Complete general education certification at KCTCS noted in Category 1		12-13	
OR			
Complete KSU general education requirements			
KSU BS in Cybersecurity			
BCTC AAS CYS			CYS Any Track
ENG 216	Technical Writing	3	
COS 300	Systems Design and Development	3	
COS 301	Computer Organization	4	
COS 302	Operating Systems	3	
COS 310	Discrete Computing Structures	3	
COS 330	Cloud Security	3	
COS 332	Management of Information Security	3	
COS 334	Cyber Forensics	4	
COS 364	Data Storage and Mining	3	
COS 410	Database Management Systems	3	
COS 430	Application Security	3	
COS 460	Artificial Intelligence	3	
COS 480	Penetration Testing and Vulnerability	3	
COS 483	Database Security	3	
COS 484	Network Security	3	
COS 496	Capstone Project	3	
Free Elective		3	CYS Any Track
Free Elective		1	CYS Any Track
Guided Elective		3	CYS Any Track
Guided Elective		3	CYS Any Track
Guided Elective		3	CYS Any Track
	Subtotal KSU Program Credit Hours	63	
Subtotal KSU Credit Hours		63	
Subtotal KCTCS Credit Hours		61 - 67	
Total Baccalaureate Degree Credit Hours		124 – 130 ⁴	

⁴Any additional classes taken at KCTCS or KSU to earn general education certification will be in addition to these hours.

updated: 10-29-2024