



**KENTUCKY STATE
UNIVERSITY**

CYBER SECURITY CERTIFICATE

The Computer Cyber Security Certificate, offered by the School of Mathematics and Computer Science, consists of 12 to 13 credit hours and is designed to equip students with essential skills and knowledge in the growing field of cybersecurity. This certificate provides a focused curriculum that prepares students to understand, identify, and respond to a wide range of digital threats and security challenges faced by individuals, organizations, and governments.

The coursework typically includes foundational topics such as network security, ethical hacking, digital forensics, information assurance, and system vulnerabilities. Students learn how to assess risks, implement protective measures, and investigate security breaches using industry-standard tools and techniques. Some programs may also include an introductory course in programming or information systems to support students with limited technical backgrounds.

This certificate is ideal for students pursuing degrees in computer science, information systems, criminal justice, or business, as well as for working professionals looking to up-skill or transition into the cybersecurity field. It provides a strong foundation for entry-level roles such as security analyst, IT support technician with a focus on security, or for further study in advanced cybersecurity programs or certifications.

In an era where data protection and digital privacy are more critical than ever, the Computer Cyber Security Certificate offers a practical, career-oriented credential that opens doors to one of the fastest-growing areas in the tech industry.

The Certificate is available to students, regardless of major, who complete the specified coursework, and while prior technical/security experience, training, or education may be beneficial, none is required. All courses must be passed with a "C" or better. The Certificate requires the completion of:

Code	Title	Hours
COS 281	Introduction to Info. Sec. & A	3
Select any three of the courses below		9
COS 332	Management Information Securit	
COS 334	Computer Forensics	
COS 483	Database Security	
COS 484	Intro to Network Security	
Total Hours		12