

CRIMINOLOGY BA

WITH A CONCENTRATION IN CYBERSECURITY

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Davis & Elkins College
DIVISION OF SOCIAL SCIENCE

The criminology and criminal justice program at Davis & Elkins College will prepare you for a broad range of careers in the criminal justice field. One of the most current and exciting programs within our department is the ***Criminology BA with a concentration in cybersecurity***.

- In the U.S., the cybersecurity workforce has more than 950,000 jobs — with around 465,000 of them yet to be filled, according to CyberSeek, a project supported by the National Initiative for Cybersecurity Education (NICE), a program of the National Institute of Standards and Technology in the U.S. Department of Commerce.
- Employment of information security analysts is projected to grow 33 percent from 2020 to 2030, much faster than the average for all occupations, according to the Bureau of Labor Statistics, February 2022. The new BA concentration will prepare D&E graduates for high paying, high-demand careers in some of the best industries across the country and the globe, such as federal, state and local governments, financial services, healthcare, manufacturing, retail companies, security and technology.

At Davis & Elkins College, our vision of coupling a baccalaureate degree with a concentration in cybersecurity provides our graduates with a marketable edge as compared to other programs offering only certificates in cybersecurity. Utilizing online resources and in-person classes, the skills and opportunities for learning are expanded beyond our campus for students within this program.

13:1

45 Undergraduate Programs

Student to Faculty Ratio

<700

Students Enrolled



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LEADING-EDGE COURSES

Introduction to Cybersecurity This course will teach you how malicious actors use social manipulation and technology to launch devastating attacks and provide you with the tools you will need to defend them.

Career Navigation and Exploration in Cybersecurity This course will help you find a job in Cybersecurity upon graduation. Not just any job; one that meets your personal and financial needs and makes you excited about the future.

Network and System Security Modern organizations know that even the strongest systems can be vulnerable to cyberattacks. By the end of the course, you will be able to identify and remedy common network and systems vulnerabilities.

Cybercrime and Governance This course explores the critical role of governance in mitigating cybercrime and ensuring the integrity of digital environments. You will learn how governments detect, stop cybercrimes, and become familiar with the laws and policies in place to deter cybercriminals.

Security Operations The moments after a breach can make or break an organization. When the unthinkable happens and a cybercrime is discovered, the actions taken by the security operations can either contain the damage and restore order or lead to catastrophic consequences.

Ethical Hacking To stop a hacker, you need to be able to think like a hacker. In this course, you will learn hands-on techniques for attacking and penetrating networks and systems. You will learn the tools to launch these offensive tactics, and then complete a hands-on project where you will be asked to ethically hack a real system.

The Future of Cybersecurity Technology is racing forward, and cybersecurity must stay ahead to meet new challenges and threats. In this class, you will learn about the changing landscape of cybersecurity, emerging mobile technologies that are likely to be targeted, and new forms of cyber-attack being launched.

Cybersecurity Capstone The Capstone course is the culmination of the Cybersecurity program, allowing students to apply their knowledge to real-world challenges. Students will undertake a comprehensive project integrating various aspects of cybersecurity, including log analysis, vulnerability assessment, incident response, ethical hacking, and cloud security.

*All of these classes are online and asynchronous.