

Four other majors offered by Old Dominion University (ODU) and how they relate to cybersecurity:

1. Computer Science: A major in Computer Science provides a strong foundation in programming, algorithms, and data structures. Computer science provides the technical foundations needed for roles in security engineering, infrastructure protection, and application security testing. This knowledge is essential for cybersecurity professionals as they often need to develop and implement secure software systems, analyze vulnerabilities, and write secure code to protect against cyber threats.

2. Information Systems: Information Systems focuses on managing and using technology in organizations. Information systems teaches vital knowledge for securing enterprise networks and managing cyber risk. This major helps students understand how computer systems store, transmit, and secure information. Professionals with a background in Information Systems can apply their knowledge to manage and secure organizational data, networks, and infrastructure.

3. Electrical Engineering: Electrical Engineering covers design, development, and maintenance of electrical systems and components. Electrical engineering equips professionals to design secure hardware and implement encrypted protocols. This major can provide knowledge in network architecture, cryptography, and secure communication protocols in cybersecurity. This major can contribute to cybersecurity by implementing secure network configurations, designing secure hardware systems, or developing encryption algorithms.

4. Criminal Justice: While not a traditional technical major, Criminal Justice can play a crucial role in cybersecurity. This major can provide an understanding of cybersecurity's legal and ethical aspects. Criminal justice also cultivates an understanding of cyber policy and developing legal frameworks around digital threats. Professionals with a background in Criminal Justice can contribute to cybersecurity by investigating cybercrimes, working on policy and compliance issues, or helping organizations navigate the legal landscape surrounding cybersecurity.

Overall, these majors offer different perspectives and skill sets integral to cybersecurity. Combining knowledge from these diverse areas can help individuals tackle cybersecurity challenges from technical, managerial, and legal standpoints.