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These program criteria apply to computing programs using cybersecurity, computer security, cyber operations, information assurance, information security, or similar terms in their titles.

3. Student Outcomes
The student outcomes for cybersecurity programs must include outcomes (6) and (7).

(6) An ability to apply security principles and practices to the design and implementation of the physical, software, and human component of the system.

(7) An ability to analyze and evaluate cyber systems with respect to security and maintaining operations in the presence of risks and threats.

5. Curriculum
Students have course work or an equivalent educational experience that includes the fundamentals of cybersecurity:

1. Cyber Defense, such as cryptography, data security, network security, information assurance.
2. Cyber Operations, such as cyber attack, penetration testing, cyber intelligence, reverse engineering, cryptanalysis.
3. Digital Forensics, such as hardware and software forensics, incident response, cybercrime, cyber law enforcement.
4. Cyber Physical Systems, such as Supervisory Control and Data Acquisition (SCADA) systems, internet-of-things (IOT), industrial control systems.
5. Secure Software Development, such as secure systems design, secure coding, deployability, maintainability, usability of secure information system.
6. Cyber Ethics, such as ethical use of information systems, privacy and anonymity, intellectual property rights, professional responsibility, global societal impact of information systems.
7. Cyber Policy, Governance, and Law, such as government and institutional cyber policy and practices, regulatory authorities for cyber systems and operations, cyber law.
8. Cyber Risk Management, such as cyber resilience, mission assurance, disaster recover, business continuity, security evaluation, cyber economics.
9. Human Behavioral Relating to Cyber Systems and Operations, such as social engineering, social networks, user experience, and organizational behavior.

6. Faculty
At least some full-time faculty members, including those responsible for the cybersecurity curriculum development, must hold a terminal degree with a program of study in cybersecurity or a closely related field.