Creating Superior Cybersecurity Workforce

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Why?

- Preparing our nation to deal with ever-increasing cyber threats, definitively establish it as world leader in cyber space

- Computing transcending all aspects of our lives, we must secure it

- Global cybersecurity market projected to grow to $270 billion by 2026

- Huge opportunity to meet demands of industry/federal agencies

Key Features of Our New Programs

- Comprehensive understanding of security threats/solutions in systems, code, protocols

- Interdisciplinary curriculum, hands-on projects

- Computer science rigor

- R&D bend – cybersecurity research-active faculty

- **Close partnership with industry**
    - learning outcomes, realism, assessment approaches, compliance
    - informational sessions, internships, mentorships, recruitment

Graduate Certificate in Secure Computing

- Courses (15 credit hours)

  System and Software Security

  Network Security

  Security Operations (collaboration with CISO)

  Human Aspects of Security and Privacy

  Business Aspects of Security and Privacy (taught by Business School)

- **Also available online**

MS Degree in Secure Computing

➢ **Stackable on top of secure computing certificate**

➢ Required courses – all from certificate

➢ Additional courses (15 credit hours)

 – 2 from Cryptography and Codes, Advanced Algorithms, ML, AI, Data Mining, NLP, Advanced Operating Systems/Computer Networks, Distributed Systems

 – Thesis/Project/Course-only options

Broadening Cybersecurity

➢ Develop Cybersecurity ecosystem at University of Utah, beyond

➢ Center for Cybersecurity, NSA center of excellence

Questions??