Outline

• What’s new in the Center
• New degree
• Iowa Cyber Hub
• Cyber Defense Competitions
What’s New

- Ally started one week before ISU started working from home
- Two-day seminar in August for 50 college students around the country
- Awaiting response about $70 million DoE
Cyber Security Engineering Degree

Year 1
Engineering basic program

Year 2
3 Cyber required courses
Removed Physics 2 & circuits

Year 3/4
1 required cyber course
4 Cyber elective courses
Removed 4 Cpr E tech electives

Capstone (EE/Cpr E/Cyb E)
Computing elective courses
CprE required courses
Gen Ed Math Com S Courses

IOWA STATE UNIVERSITY
Information Assurance Center
Cyber Security Electives

Current Courses
- Network Security
- Secure Operating Systems
- Software Analysis and Verification for Safety and Security
- Select grad courses

Next Year
- Wireless Security
- IoT/CPS Security
- Cyber Security Practicum
Status of Degree – Enrollment

• 72 students
  • ~32 freshmen
  • Three to graduate this May
• COVID-19 is also complicating enrollment projections
Status of Degree – Hiring

- Department has been looking for two faculty
- Hiring is on temporary hold
Recruitment and Outreach

- Goal: Provide resources for schools to introduce cyber security as a career
- Statewide effort to build pipeline and present opportunities
Recruitment and Outreach cntd.

- IT-Adventures, IT-Olympics moved online this year
  - Looking to expand program
- Security Literacy curriculum for K-12 schools
Iowa Cyber Hub

- Goal: Create an ecosystem for companies, universities and community colleges to collaborate on addressing cyber security issues and create a larger cyber security workforce
- Increase student interest in cyber security
- Summit held in February
- Onboarding Tim Orr as a consultant
- Redoing website
Cyber Defense Competitions

- 5 competitions per year
  - 2 Iowa State CDCs
  - 1 National CDC
  - 1 Community College CDC
  - 1 High School CRC
- Last ISU CDC held virtually on March 25
2020-2021 CDC Dates

- Iowa State: October 2-3
- Community College: December 4-5
- National: February 5-6 tentatively
- Iowa State: March 26-27 tentatively
- High School: April 24 tentatively
CDC Support

- Department provides money
- Companies provide attackers team
- Corporate sponsorship
  - Funding
  - Presentations
- Information Assurance Student Group
Questions?
Thanks!