

# UAF Computer Science: Information Assurance

Dr. Kara L. Nance  
Computer Science  
University of Alaska Fairbanks

## Overview

- Introduction
  - University of Alaska Computer Science
  - ASSERT Center
  - CAEIAE
  - Courses
  - Complex Systems
- Conclusions

## University of Alaska – Computer Science



- ABET Accredited Computer Science Program.
- B.S., M.S., M.S.E.
- Diverse faculty research expertise with emphasis on
  - Information Assurance
  - Computer Graphics
  - Data Systems

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## Advanced System Security Education, Research, and Training (ASSERT) Center



- Computer Forensics
- Information Assurance
- Computer Security
- Authentication
- Networks
- Honeypots
- Virus and Worm Behavior
- Social Engineering
- Critical Infrastructure
- Sensor Webs
- Education/Outreach
- Complex Systems

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[www.assert.uaf.edu](http://www.assert.uaf.edu)

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# CAEIAE

UAF has been designated by the National Security Agency and the Department of Homeland Security as a Center of Academic Excellence in Information Assurance Education

# CAEIAE

## **WHAT ARE THE BENEFITS OF BEING A CAE?**

- The National Security Agency (NSA) has authorized UAF to certify its students in information assurance.

# CAEIAE

## WHAT ARE THE BENEFITS OF BEING A CAE?

- UAF is now eligible to apply for CAE-only funding, including full scholarships for students, capacity-building grants, and research funds from agencies including the National Science Foundation (NSF), the Department of Defense (DoD), The National Security Agency (NSA) and the Department of Homeland Security (DHS).

# CAEIAE

## WHAT ARE THE BENEFITS OF BEING A CAE?

- UAF has received recognition for its expertise in distance education, and has been asked to increase its distance education offerings in the Information Assurance area.

# CAEIAE

## WHAT ARE THE BENEFITS OF BEING A CAE?

- UAF houses and has been recognized nationally for its state-of-the-art ASSERT Lab which is available for faculty, students, and staff as well as local law enforcement and partner institutions to conduct testing and research.

# CAEIAE

If nothing else...

- We can recover “lost” data...
- We are developing courses to meet the needs of the State of Alaska.

# UAF Courses

Computer Forensics  
Information Assurance  
Cryptography  
System Security and Administration  
Intrusion Detection and Incident Response

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# Funding Priorities

Bioinformatics  
Computer Science  
Collaborative (multidisciplinary)  
International  
Homeland Security

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## Complex Systems (Multidisciplinary)

Conference in July 2006

- How can we work together?
- What are the common threads?
- How can we help each other?
- How much do we need to understand each other?

## Question?

## What can we do for you?

Questions?

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