

Cheryl V. Hinds Ph.D.

Computer Science Department,
Norfolk State University,
Norfolk, Virginia 23504
Telephone: 757 823 9551
E-Mail: chinds@nsu.edu



Education

University of Idaho

Ph.D. Computer Science, 2012

City University of New York

M.A. Computer and Information Science, 1992

University of the West Indies

B.Sc. Economics, 1986

Professional Experience

Instructor of Computer Science, Norfolk State University

Norfolk, Virginia — 2003-present

Accomplishments

- Teaching Face to Face courses
- Teaches Blended courses
- Teaches online courses
- Serve as Freshman Academic Advising Coordinator
- Serve as ACM-W Student Organization Faculty Sponsor
- Serve as ACM-IA Student Organization Faculty Sponsor
- Revise Curricula for suitability as online courses
- Developed curricula for new courses

Lecturer of Computer Science, Eastern Washington University

Cheney, Washington — 2002-2003

Accomplishments

- Taught computer science courses
- Assisted in the development of a Lab Manual for Java class

Instructor of Computer Science, University of Idaho

Moscow, Idaho — 2001-2002

Accomplishments

- Taught computer Science courses
- Revised Curriculum

Instructor of Computer Science, Norfolk State University

Norfolk, Virginia — 1996-2001

Accomplishments

- Taught computer science courses
- Served as Academic Advisor
- Assisted in the revision of curricula

Instructor of Information Systems, Old Dominion University
Norfolk, Virginia — 1992-1996

Accomplishments

- Taught courses in Information Systems
- Served as an Academic Advisor
- Managed a teaching computer lab
- Interviewed, selected and supervised graduate teaching assistants teaching Computer Literacy

Grants Awarded

- 2013 “Information Assurance Scholarship and Capacity Building”. Submitted to Department of Defense. Co-PI. \$106,000. February 2013
- 2012 “A Visual Simulation of a Wireless Sensor Network”. STARS Faculty Summer Research Grant. PI. \$7,500
- 2011 “NSF/SFS” National Science Foundation “Scholarship for Service”. Co-PI. \$1.2 million
- 2011 “Compromised Node Detection in Wireless Sensor Networks”. STARS Faculty Summer Research Grant. PI. \$7,500
- 2010 “Efficient Detection of Compromised Nodes in a Wireless Sensor Network”. Awarded by the Air Force Office of Scientific Research. Managed by the Thurgood Marshall College Fund. PI. \$10,000
- 2010 “A Visual Simulation of a Wireless Sensor Network” STARS Faculty Summer Research Grant. PI. \$7,500
- 2010 “Norfolk State University Information Assurance Scholarship Program”. Department of Defense IASP Capacity Building Grant. Co-PI. \$53,000
- 2009 “Curriculum Enhancement”. Norfolk State University STARS Faculty Summer Research Grant. PI. \$7,500
- 2008 “Curriculum Development: The Design of Web Based Course Materials”. Norfolk State University, STARS Faculty Summer Research Grant. PI. \$7,500
- 2007 “Curriculum Development: The Design of Web Based Course Materials”. Norfolk State University, STARS Faculty Summer Research Grant. PI. \$7,500
- 2006 “Designing Secure Interfaces”. Norfolk State University STARS Faculty Summer Research Grant. PI. \$7,500

Grants Pending

- Integrating Research on Secure Web Mashups into the Computing Curriculum. Collaborative Project Co-PI. Submitted to National Science Foundation. \$100,000. November 2013

Selected Professional Development Activities

- LERN Certified Online Instructor Certification Training. Expected Completion May 2014
- Certified Quality Matters Peer Reviewer for Online Courses. 2012
- Attended Ethical Hacking Boot Camp. 2013
- Attended Paraben Corporation Digital Forensics Training Workshops, 2012
- Attended Grant Writing Workshop, sponsored by National Science Foundation. 2010
- Attended Faculty Development Workshop on Teaching First Year Students Trust, Responsibility, Critical Thinking and learning strategies in the classroom. 2009
- Attended Workshop on “Developing online courses. 2001
- Attended Workshop on “Teaching C++ in the CS2 course”. 2000
- Attended Workshop on “Teaching Java as a second Programming Language”. 2000
- Attended workshop on “Developing Web-based course materials for Distance Education”. 1999

Research Interests

- Computer Security
- Computer Forensics
- Usability Security
- Computer Science Education

Research Projects Supervised

- “A Forensic Analysis of Android and IOS Devices”. Master’s Thesis Research Supervisor. Medicus Riddick. 2013
- “The Design and Development of a Cyber Security Awareness Game “. Senior Seminar Research Supervisor. Jenci Chavez, Vanier Walker, Santrayia Walker. 2013
- “A Forensic Analysis of Digital Devices”. STARS Summer Research Supervisor. Ommunique Owens. 2013

- “A Weighting Voting Trusted Algorithm to Detect Compromised Nodes in a Wireless Sensor Network”. Senior Seminar Research Supervisor. Lemuel Armstrong and Shaquille Howard. 2013
- “Automatic Incident Response in Wireless LANs for Advanced Metering Infrastructure (AMI)”. Master’s Thesis Committee Member. DeMarcus Thomas. 2012
- “Developing a Cloud Environment Using vSphere”. Masters Project Committee Member. Brittney Herring. 2011
- “Digital Forensic Investigation in a Cloud Environment”. Jeffie Powell. Master’s Thesis Committee Member. 2011
- “A Visual Simulation of Compromised Node Detection in a Wireless Sensor Network”. Senior Seminar Research Supervisor. Kwame Martin and Cedric King. 2011
- “Compromised Node Detection in a Wireless Sensor Network”. Research Supervisor. Reyna Williams (Student won second place at the LSAMP oral presentation). 2009.
- “A Secure Password System for the Visually Impaired”. Senior Seminar Research Supervisor. Jason Jones. 2006
- “Secure User Interfaces for Intrusion Detection Systems”. Chinedu Ekwueme. Research Supervisor 2005. (Student won first place at LSAMP poster Competition)
- “Designing a Distance Education Class”. Senior Seminar Research Supervisor. Takashima Smith. 1999
- “The Development of a Web-Based survey to access the health of Norfolk State University Students”. Senior Seminar Research Supervisor. Taunia Moore. 1998

Publications

- Jeffie Powell, Aurelia Williams, Cheryl Hinds, Luay Wahseh. “Digital Forensics Investigation in a Cloud Computing Environment Using AccessData Forensics Toolkit”. Accepted Paper at The Association of Computer/Information Sciences and Engineering Departments at Minority Institutions’. ADMI, March 2011.
- Cheryl V. Hinds; James Alves-Foss. “Detecting Compromised Nodes in a Wireless Sensor Network Using Trust”. 1st International Conference on Sensor Networks and Applications (SNA) November, 2009
- Cheryl Hinds; “Efficient Detection of Compromised Nodes in a Wireless Sensor Network”. 12th annual Communications and Networking Simulation Symposium (CNS), March 2009.

- Cheryl Hinds; Chinedu Ekwueme. "Increasing Security and Usability of Security Systems with Graphical Passwords". Extended Abstract. ACM Southeast Regional Conference, 2007.
- "On Recapturing the Interest of Females in Computer Science at Norfolk State University". Cheryl V. Hinds, Mary Williams, Jonathan M. Graham. ACM SIGCSE. 2006.

Presentations

- "Detecting Compromised Nodes in a Wireless Sensor Network Using Trust". Presented at 1st International Conference on Sensor Networks and Applications (SNA) November, 2009
- "Efficient Detection of Compromised Nodes in a Wireless Sensor Network". Presented at 12th annual Communications and Networking Simulation Symposium (CNS) March, 2009
- "Security Issues in Wireless Sensor Networks". Presented at Hampton University Information Assurance Symposium, April 2007

Consulting

- Designed, and maintained a student records management system. British Virgin Islands University of the West Indies Satellite Center. 1995 – 2000

University Service

- Founder and Faculty Advisor, NSU ACM-Women Student Chapter. Ongoing
- Departmental Freshman Academic Advising Coordinator. Ongoing
- Grader of Exit Exam of Writing Competency. Ongoing
- Instructor, STEM 101, college credit course offered to City of Virginia Beach High School students, ongoing
- Organized Departmental Student Recruitment Activities. 2006 – present
- Serve as committee member on the Assessment, Recruiting and Retention Committee. Ongoing
- Founder and Coordinator of Computer Science High School Olympiad, 2007 – 2008.
- Coordinator of Weekly Colloquium for Information Assurance Majors. 2012 - present

Professional Memberships

- Voting Member of Association for Computing Machinery (ACM)
- Voting member of Computer Science Teachers Association (CSTA)