Will I be able to get a copy of the slides after the presentation?

YES!

How can I ask a question during the info session?

1. Use the Chat panel to the right of this presentation. You will be able to send a message to the Panelists.

2. Type your question in the box.

3. In the dropdown menu where it says “Send to” select “All Panelists” so an advisor can answer your questions via chat.
Today’s Program

- University of Southern California
- Viterbi School of Engineering
- Master of Cyber Security
  - Career Prospects
  - Course Outline
  - How to Apply
- DEN@Viterbi
- Tuition & Fees
- Q&A
University of Southern California
University of Southern California

- Oldest private university in western U.S. – founded in 1880
- 40,000 Students: 18,000 Undergrads | 22,000 Graduates
- 3,500 full-time faculty
- Diverse student population
- Located in Los Angeles
A Dynamic Location: Los Angeles, California

Principal world center for aerospace, communications, biotech R&D, commerce, entertainment and the arts.

Los Angeles provides a setting for numerous cultural, educational and career opportunities.

California offers rich opportunities for internships and careers, with Silicon Valley to the north and the hub of biotech activity in San Diego, to the south.
Viterbi School at a Glance

- **Academic Departments**: 8 Academic Departments
- **Faculty**: 177 tenure-track faculty, 35+ NAE, 60+ NSF Career Awardees
- **Student population**: 2,100 Undergraduate, 4,000 Graduate students
- **Research**: More than 65,000 Alumni
- **Leader in funded research**: 40+ Research Centers
Viterbi School: Points of Distinction

- International Reputation for Excellence

- New Announcements:
  - Ranked #1 in both the Online Graduate Engineering Program and Online Computer Information Technology Program (Computer Science) rankings by the *US News and World Report (2013 Edition)*

- World Class Faculty & Research
  - NSF Career Awardees
  - Sol Golomb, Nat’l Medal of Science
  - Mark Humayun’s Argus II (artificial retina)

- Trojan Family Network
Viterbi School is a consistent leader in funded research in the U.S.

- highly interdisciplinary research environment
- diverse research areas as robotics, software engineering, sensor networks, vision sciences, automated construction and photonics
- over 40 research centers
- industrial partnerships and collaboration

Institute for Creative Technologies
Biomimetic Microelectronic Systems Engineering Research Center
National Center for Metropolitan Transportation Research
Center for Energy Nanoscience
Meet Dr. Winnie Callahan

Dr. Winnie Callahan
Associate Director, Informatics Program
USC Viterbi School of Engineering

Education:
   EdD in Educational Administration from University of Nebraska
Master of Cyber Security

• The degree program brings together best practices, best technology and best minds to develop students who will be leaders in addressing the country’s pressing cyber security needs.

• We are committed to leveraging the strongest technology and educational methods in addressing these challenges.

• Our focus will include trusted systems and standards, and proven verifiable protection of truly trustworthy high assurance security designed to substantially address the problems of adversarial attacks that include software subversion.
Master of Cyber Security

• “Best of Breed” approach in developing program
• USC is a NSA/DHS Center of Academic Excellence in Research

• Program Highlights:
  • Dr. Blaine Burnham
    • 10+ years NSA; 10+ years at various national laboratories
    • Former Director of Georgia Tech Information Security Center
    • Member of US Strategic Command Strategic Advisory Group Information Operations
  • Dr. Roger Schell
    • Founding Deputy Director of the DoD National Computer Security Center
    • Former US Air Force and NSA
    • Associate professor of Computer Science at Naval Postgraduate School
    • NIST and NSA awarded the National Computer System Security Award, the nation's most prestigious award in the computer security field
• In 2011, NIST projected that more than 700,000 new cybersecurity professionals will be needed in the United States alone by 2015.

• Industry connections to:
  – Major defense contractors
  – Government (NSA, DoD, etc.)
  – Major industry (several Fortune 500)

• President Obama’s 2014 budget dedicates $13B+ to cyber-related programs
Master of Cyber Security: Course Outline

Required Courses (18 units)
- INF 520 Foundations of Information Security
- INF 521 Applications of Cryptography and Cryptanalysis
- INF 522 Policy: The Foundation for Successful Information Assurance
- INF 523 Assurance in Cyberspace and Applied to Information Security
- INF 524 Distributed Systems and Network Security
- INF 527 Secure Systems Engineering

Electives (9 units/choose 3 courses)
- CSCI 530 Security Systems
- CSCI 531 Applied Cryptography
- INF 525 Trusted System Design, Analysis and Development
- INF 526 Secure Systems Administration
- INF 528 Computer and Network Forensics

Degree Completion Requirement: 27 units (9 courses)
Application Criteria for Master of Cyber Security

- Undergraduate degree (Bachelor of Science) in engineering, math, or hard science from a regionally-accredited university

- A strong background in at least computer science, digital networking, and elementary/introductory abstract algebra. Knowledge of computer engineering and network engineering is also encouraged.

- GPA: To be competitive, a cumulative undergraduate GPA of at least 3.0 on a 4.0 scale is recommended

- GRE: Satisfactory scores on the general Graduate Record Examination (GRE) that are less than five years old

- Please visit viterbi.usc.edu/msprograms for complete requirements
Application Deadlines

- Fall 2014: January 15, 2014

Apply Online:
- [http://www.usc.edu/admission/graduate/apply](http://www.usc.edu/admission/graduate/apply)
# Distance Education Network (DEN@Viterbi)

<table>
<thead>
<tr>
<th></th>
<th>DEN@Viterbi Student</th>
<th>On-Campus Student</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Program Admission</strong></td>
<td>USC Graduate Application &amp; required materials</td>
<td>USC Graduate Application &amp; required materials</td>
</tr>
<tr>
<td><strong>Weekly Course Lectures</strong></td>
<td>Online with Interactivity</td>
<td>On USC’s Campus</td>
</tr>
<tr>
<td><strong>Online Course Archives</strong></td>
<td>✓</td>
<td>✓ *</td>
</tr>
<tr>
<td>(Lectures &amp; Course Documents)</td>
<td>✓</td>
<td>✓ *</td>
</tr>
<tr>
<td><strong>Assignments</strong></td>
<td>Submit electronically via email or fax according to course deadlines</td>
<td>Submit during lecture or lab according to course deadlines</td>
</tr>
<tr>
<td><strong>Exams</strong></td>
<td>Proctored location except for students located in L.A. area</td>
<td>USC’s campus</td>
</tr>
<tr>
<td><strong>Courses per Semester</strong></td>
<td>1-2</td>
<td>3-4</td>
</tr>
<tr>
<td>(Average)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Degree Completion</strong></td>
<td>27-34 units with a 3.0 GPA or above</td>
<td>27-34 units with a 3.0 GPA or above</td>
</tr>
<tr>
<td><strong>Requirements</strong></td>
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<tr>
<td><strong>USC Diploma</strong></td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>(No Distinction)</td>
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*DEN@Viterbi sections only.*
DEN@Viterbi’s E-Learning System

Distance Education Network (DEN)

Now Showing CSCI455x_20123

Slide Show: Click to Expand

Example of method call/return

Video can expand to full screen and high resolution downloads are available.

Class notes are enlarged for better viewing; and can be downloaded and printed!

Navigation bar for jumping to different parts of the lecture.

Video window and controls.

Playback Speed Multiplier: x 1
(regular speed is 1)
DEN@Viterbi Additional Info

• **Limited Status**
  – Allows strong candidates to begin coursework before formal admission.
  – Courses (*maximum of 4 courses*) can be applied toward degree program once admitted but *limited status does not guarantee admission*.
  – Get Started: [http://gapp.usc.edu/graduate-programs/den/getting-started](http://gapp.usc.edu/graduate-programs/den/getting-started)

• **Tuition Deferment**
  – Students supported by company can defer “up front” payment of tuition until after the semester is over.
  – Company must pay 75-100% of tuition to be eligible for program.
  – For additional information: [http://gapp.usc.edu/tuitiondeferment](http://gapp.usc.edu/tuitiondeferment)
### PER-COURSE TUITION

<table>
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<tr>
<th></th>
<th>Tuition for 3-Unit Course</th>
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<tbody>
<tr>
<td>500/600 level course: $1636 per unit</td>
<td>$4,908</td>
</tr>
</tbody>
</table>

- Degree Programs are 27-34 units (9-11 courses) – Tuition total is about $45,000
- On-campus students will be required to pay $750-$900 in additional mandatory fees per semester
Contact Us

USC Viterbi School of Engineering
Graduate and Professional Programs

Email (On Campus): viterbi.gradprograms@usc.edu

Email (DEN@Viterbi): DEN@viterbi.usc.edu

Phone: 213.740.4488

Web: http://viterbi.usc.edu/gapp