

MS&E 91si: U.S. National Cybersecurity

Fall 2006

Welcome to MS&E 91si U.S. National Cybersecurity, a student-initiated course sponsored by William Perry.

Description

As the U.S. and the world become increasingly reliant on digital systems and the public Internet, the security and reliability of these complex systems becomes increasingly critical. Ensuring that our digital infrastructure can meet these escalating demands necessitates development of both the right technology and the right public policy. This interdisciplinary course will draw on speakers and research from the fields of engineering, public policy, law and economics in an effort to investigate and determine whether today's Internet is an appropriate platform on which to operate critical infrastructure services that affect U.S. national security.

Course Logistics

Time: Wednesday, 4:15 – 6:30 PM
Location: TBD
Grading and Units: 2 units, S/NC only
Class size: Enrollment limited to 20 students

Prerequisites: There are no technical or policy prerequisites; curiosity and interest are the only requirements. The course is particularly relevant for students interested in independent research or honors thesis work in the area of cybersecurity.

Website: <http://msande91si.stanford.edu>

Course Staff

Faculty Sponsor: William J. Perry
Student Facilitators: Martin Casado <casado@stanford.edu>
Keith Coleman <keith@cs.stanford.edu>
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Schedule

- Sept. 28** **Introduction**
- Oct. 5** **Technology & Policy 101**
- Oct. 12** **An industry perspective**
Guest Speaker: Stephen Hansen, Google & Stanford
- Oct. 19** **Market incentives and security metrics**
Guest Speaker: Kevin Soo Hoo, McAfee
- Oct. 26** **Cybersecurity and law**
Guest Speaker: Jennifer Granick, Stanford Law School
- Nov. 2** **Reinventing the Internet**
Guest Speaker: Martin Casado, Computer Science
- Nov. 9** **Network warfare**
Guest Speaker: Chris Eagle, U.S. Naval Postgraduate School
- Nov. 16** **A future critical information infrastructure**
Guest Speaker: David Alderson, California Institute of Technology
- Nov. 30** **Liability, negligence and cyberinsurance**
Guest Speaker: Erin Kenneally, San Diego Supercomputing Center
- Dec. 7** **Legislative debate**