General Information

Instructor
Matt Bishop
Email: mabishop@ucdavis.edu
Office: 2209 Watershed Sciences
Phone: (530) 752-8060
Office Hours: MW 12:10pm–1:00pm, F 11:00pm–11:50am

Lectures and Discussion Section
Lecture: MWF 10:00am–10:50am in 1062 Bainer
Discussion section: to be arranged

Course Outline
Modern topics in computer security, including: protection, access control, operating systems security, network security, applied cryptography, cryptographic protocols, secure programming practices, safe languages, mobile code, malware, privacy and anonymity, and case studies from real-world systems. Not open for credit to students who have taken course 235.

Course Goals
• Understand what computer security is and learn its basic limits;
• Learn the basic policy models underlying security;
• Know about common vulnerabilities, the basics of software security and formal verification;
• Learn the basic techniques of cryptography;
• Learn about host-based security, network security, and intrusion detection; and
• Explore other topics of interest.

Prerequisite
ECS 150, Operating Systems; ECS 152A, Computer Networks, is strongly recommended

Text

Class Web Site
To access the class web site, go to SmartSite (http://smartsite.ucdavis.edu) and log in using your campus login and password. Then go to ECS 235A in your schedule. I will post announcements, assignments, handouts, and grades there, and you must submit assignments there. The alternate web site, http://nob.cs.ucdavis.edu/classes/ecs235a-2016-01, has all the handouts, assignments, and announcements.

Grading
There will be both homework and a project. In addition, you will need to present a paper from a conference, and lead the questioning for another paper. There will be no final examination.

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework</td>
<td>45%</td>
<td>Project</td>
<td>45%</td>
</tr>
<tr>
<td>Presentation</td>
<td>5%</td>
<td>Questioning</td>
<td>5%</td>
</tr>
</tbody>
</table>

Academic Integrity
The UC Davis Code of Academic Conduct, available at http://sja.ucdavis.edu/cac.html, applies to this class. For this course, all submitted work must be your own. You may discuss your assignments with classmates or the instructor to get ideas or a critique of your ideas, but the ideas and words you submit must be your own. Unless explicitly stated otherwise, collaboration is considered cheating and will be dealt with accordingly.