

## General Information

<b><i>Instructor</i></b>	Matt Bishop; <i>Office</i> : 3059 Kemper Hall; <i>Phone</i> : 752-8060 Email: bishop@cs.ucdavis.edu; Web: http://seclab.cs.ucdavis.edu/~bishop <i>Office Hours</i> : to be determined, by appointment, or by chance
<b><i>Lectures</i></b>	TuTh 1:40PM–3:00PM in 108 Hoagland
<b><i>Course Outline</i></b>	Introduce the theoretical foundations of methods used to protect data in computer and communication systems. Access control matrix and undecidability of security; policies; Bell-LaPadula, Biba, Chinese Wall models; non-interference and non-deducibility; information flow and the confinement problem.
<b><i>Course Goals</i></b>	Some goals we hope you achieve: <ol style="list-style-type: none"> <li>1. Learn about the access control matrix model and its variants, and how it is used to analyze the security of classes of systems;</li> <li>2. Learn about the mathematics underlying confidentiality and integrity policies;</li> <li>3. Understand the composition of policies;</li> <li>4. Learn about the confinement problem and information flow; and</li> <li>5. Learn some of the theory underlying malicious logic</li> </ol>
<b><i>Prerequisite</i></b>	ECS 235A, Computer and Information Security. ECS 150, Operating Systems, and ECS 120, Theory of Computation, are strongly recommended
<b><i>Text</i></b>	M. Bishop, <i>Computer Security: Art and Science</i> , Addison-Wesley, Boston, MA (2003). ISBN 0-201-44099-7
<b><i>Class Web Site</i></b>	The class web site is on SmartSite. Go to <a href="http://smartsite.ucdavis.edu">http://smartsite.ucdavis.edu</a> and log in using your campus-wide login and password. Then go to ECS 235B in your schedule. Handouts and other documents will be posted there. We will also post announcements there, too. If you do not have access to SmartSite, you can go to the alternate web site at <a href="http://nob.cs.ucdavis.edu/classes/ecs235b-2008-01">http://nob.cs.ucdavis.edu/classes/ecs235b-2008-01</a> . You can download the handouts from that site, but you cannot look at your grades or submit homework there.
<b><i>Homework</i></b>	All work is due at 11:55PM on the date stated on the homework, unless otherwise stated. See the handout <b>All About Homework</b> for more information.
<b><i>Extra Credit</i></b>	Extra credit in this course will be tallied separately from regular scores. If you end up on a borderline between two grades at the end of the course, extra credit will count in your favor. However, failure to do extra credit will never be counted against you, because grades are assigned on the basis of regular scores. You should do extra credit if you find it interesting and think that it might teach you something. Remember, though, it is not wise to skimp on the regular assignment in order to do extra credit!
<b><i>Grading</i></b>	Homework..... 50%                      Project ..... 50% There is no final exam.
<b><i>Academic Integrity</i></b>	Please see the <i>Winter 2008 Class Schedule and Registration Guide</i> , pp. 141–142, for a general discussion of this. In particular, for this course, all work submitted for credit must be your own. You may discuss your assignments with classmates, with the instructor, or with the teaching assistant in the course to get ideas or a critique of your ideas, but the ideas and words you submit must be your own. Unless <i>explicitly</i> stated otherwise, collaboration is considered cheating and will be dealt with accordingly.