

Free Slide Sets for Introduction to IA

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I remember seeing university professors in my youth (1960s) using notes that were yellowed and curled: they had not been updated for years – sometimes decades. When I started teaching in the 1970s, I resolved explicitly never to use the previous year’s notes without at least checking them for errors and updating them with current information. I still find mistakes and omissions in my work, but in general it’s satisfying to provide students with each year’s improved materials.

The IS340 “Introduction to Information Assurance”<
<http://www.mekabay.com/courses/academic/norwich/is340/index.htm> > course in the School of Business and Management< <http://norwich.edu/academics/business/faculty.html> > at Norwich University< <http://www.norwich.edu> > is a foundation course for the Bachelor of Science in Computer Security and Information Assurance (BSCSIA)<
<http://norwich.edu/academics/business/infoAssurance/index.html> >. The course description<
http://www.mekabay.com/courses/academic/norwich/is340/is340_course_description.pdf > includes the following objectives:

By the end of this course, students will be able to discuss the following issues at a management level:

- Recognize, define and use the technical terminology of information assurance (IA).
- Name and define the fundamental concepts of IA.
- Describe models and key elements of information warfare.
- Recognize, name, define and discuss computer crime techniques; present countermeasures.
- Describe and discuss criminal-hacker subculture.
- Recognize, name, define, and discuss techniques of denial-of-service (DoS) attacks and countermeasures.
- Recognize, name, define, and discuss physical (facilities) security vulnerabilities and defenses.
- Recognize, name, define, and discuss identification and authentication techniques.
- Discuss specific security issues pertaining to voice and data networks.
- Recognize, name, define, and discuss fundamentals of firewalls and of intrusion-detection systems.
- Recognize, name, define, and discuss fundamentals of modern cryptography.
- Evaluate requirements and techniques for backing up, archiving, storing, managing, and destroying electronic records.

The course notes are available in PowerPoint (PPTX) and Adobe Portable Document Format (PDF) versions. A complete list<
http://www.mekabay.com/courses/academic/norwich/is340/is340_lectures/is340_filelist.pdf > showing the names and number of slides of all the files is available online. Each file is associated with one or two chapters in the textbook< <http://www.amazon.com/Computer-Security-Handbook-2-Set/dp/0471716529/> > we use in the course. The syllabus <
http://www.mekabay.com/courses/academic/norwich/is340/is340_syllabus.pdf > for the course

shows how the chapters are used in the two 1.5 hour classes throughout the semester.

Readers can take advantage of all the course materials freely for most educational purposes; for example, I hope the files will be useful for in-house training sessions and schools. The main restrictions on use are that

- No one should post any copy of the materials on a public Website (copies would make it difficult or impossible to maintain current versions for everyone);
- No one should sell the materials that I give away.

Full details of the copyright restrictions are available < <http://www.mekabay.com/copyright.htm> >.

Speaking of copyright, most of the images in the files are licensed from iClipart < <http://www.iclipart.com/index2.php> > and must not be extracted for use in new materials unless the user has a subscription to the service.

Finally, students and colleagues have commented on the bizarre images in some of the slides; they are included to amuse students and, in some cases, reawaken some exhausted military cadets who have to perform physical training at 05:00 before starting their day of study. Many of the images are visual puns.

I hope readers will find these resources helpful.

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