
SECURITY (COMP0141): INTRODUCTION AND WELCOME!



MODULE GOALS

The security mindset

- How to (abstractly) **think** about security?
- **Vulnerabilities** vs. **threats** vs. **capabilities**
- Social, economic and political **incentives**

Technical aspects

- Purpose and limitations of **security mechanisms**
- Vulnerabilities, attacks, and defenses

OVERVIEW

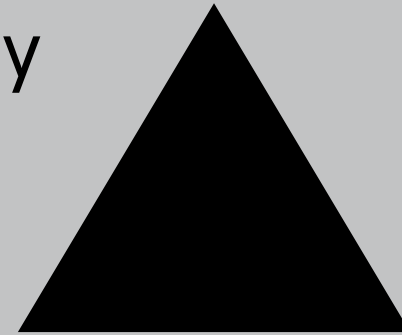
Week 1: Security policies

Week 2: Security principles

Week 3: Confidentiality

Week 4: Integrity

Week 5: Availability



Week 6: Human-centred security

Week 7: Authentication

Week 8: Access control

Week 9: Network security

Week 10: Web security

MODULE OVERVIEW

Lectures: Videos and slides will be posted online on **Tuesdays**

Tutorials: Led by TAs and conducted **Wednesdays 11-13** (recorded)

- Exercises available **Mondays** and solutions on **Fridays**
- There is no tutorial this week!

Website: <https://moodle.ucl.ac.uk/course/view.php?id=9307>

Assessment: 100% exam in Term 3

Quizzes: Weekly (unmarked!) 3-6 question quiz to confirm your understanding of the lecture material

OTHER RESOURCES

The Internet is vast! Information is not always trustworthy, but still good to read lots of news articles, Wikipedia, etc.

Will link to (free) chapters from Ross Anderson's textbook "Security Engineering" when appropriate



<http://www.cl.cam.ac.uk/~rja14/book.html>



Slides and Moodle page will also have links to papers and articles

“HACKING”

We will learn about **attacks** in this module

It is good to study and experiment with attacks to understand how they work, but only **IN THE LAB!**

It is **not acceptable/ethical/legal** to attack live systems

The Information Security research group runs a **hacking seminar** and the link to participate will be posted on Moodle

