

International, cross-program course

Secure Computer Systems 1

Advanced level, 5 credits, period 2, code 1DT072

Main teacher: Björn Victor (bjorn.victor@it.uu.se)

“What everyone should know about computer security”

How do you avoid writing insecure programs?

How is my privacy affected?

How do you protect against attacks?

How do you attack insecure systems?

Concepts

Principles

Theory

Practice

Authentication and authorization

Network security

Malware and Software security

Access control

Effects on society

Web security

Sandboxing and Virtualization

Privacy and tracking

Ethical + legal aspects

Active lectures

In-class problem solving and discussion

Computer labs and assignments

practice tool knowledge and practical skills
train theory, creativity, problem solving
through active participation in group work

Continuous assessment

in groups

written + oral

+

Basic final exam

individual



Linux ssh
some programming
OS networking
advanced level:
own research needed