



# EP275V Ethical hacking II 4.0 credits

## Etisk hackning II

This is a translation of the Swedish, legally binding, course syllabus.

If the course is discontinued, students may request to be examined during the following two academic years

## Establishment

Course syllabus for EP275V valid from Autumn 2024

## Grading scale

A, B, C, D, E, FX, F

## Education cycle

Second cycle

## Main field of study

Computer Science and Engineering

## Specific prerequisites

- Completed course EP274V Ethical hacking I, 3,5 credits.
- Knowledge in English corresponding to the upper secondary course English B/English 6.

## Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

## Intended learning outcomes

After passing the course, the student should, at an introductory level, be able to

- establish resources to support offensive security operations
- perform reconnaissance and discovery to plan operations
- access credentials, such as account names, passwords and access tokens
- achieve initial access to networks and systems
- execute malicious code on remote devices
- establish command and control capabilities to communicate with compromised systems
- elevate privileges on systems to gain higher-level permissions
- persist on networks by maintaining access across interruptions
- move laterally, pivoting through the computing environment
- avoid detection by network defenders
- collect and exfiltrate data from computing environments
- assess the security of computer systems, applications, and services
- carry out legal and ethical security testing.

This will provide students with a practical understanding of the capabilities and possibilities of an attacker, in order to evaluate the cybersecurity of computer networks.

## Course contents

The course has no new course content. It gives new challenges within the scope of the same cyber environment as EP274V Ethical Hacking I.

## Examination

- PROA - Project assignment, 4.0 credits, grading scale: A, B, C, D, E, FX, F

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

## Ethical approach

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.

- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.