

CS-323

**Introduction to operating systems**

Zwaenepoel Willy

<b>Cursus</b>	<b>Sem.</b>	<b>Type</b>
Communication systems	BA6	Opt.
Computer science minor	E	Opt.
Computer science	BA6	Obl.
HES - IN	E	Obl.

Language of teaching	English
Credits	3
Session	Summer
Semester	Spring
Exam	During the semester
Workload	90h
Weeks	14
<b>Hours</b>	<b>3 weekly</b>
Courses	2 weekly
Exercises	1 weekly
<b>Number of positions</b>	

**Summary**

Introduction to basic concepts of operating systems.

**Content**

Function and general structure of an operating system.  
 Process management.  
 Memory management.  
 File systems.  
 Virtualization and virtual machines.

**Keywords**

Operating systems

**Learning Prerequisites****Required courses**

CS-206 Parallelisme and concurrency  
 CS-207 Systems programming

**Learning Outcomes**

By the end of the course, the student must be able to:

- Manage key components of operating system

**Teaching methods**

Lectures and exercises.

**Expected student activities**

Attendance at lectures and completing exercises.

**Assessment methods**

Midterm and final during the semester.  
 50% midterm, 50% final.

**Supervision**

Office hours	Yes
Assistants	Yes
Forum	Yes

## Resources

### Bibliography

Operating Systems : Three Easy Pieces, R. Arpaci-Dusseau and A. Arpaci-Dusseau (free online book). Slides available on Moodle.

### Ressources en bibliothèque

- [Operating Systems : Three Easy Pieces / Arpaci-Dusseau](#)

### Références suggérées par la bibliothèque

- [Operating Systems Concepts / Silberschatz](#)