



Course syllabus

Faculty Board of Science and Engineering
School of Computer Science, Physics and Mathematics

2DV408 Avancerade WAN-teknologier, 7,5 högskolepoäng
Advanced WAN Technologies, 7.5 credits

Main field of study

Computer Science

Subject Group

Informatics/Computer and Systems Sciences

Level of classification

First Level

Progression

G2F

Date of Ratification

Approved by the Board of the School of Computer Science, Physics and Mathematics
2010-06-15

The course syllabus is valid from autumn semester 2010

Prerequisites

60 credits in Computer Science, including 1DV447 Advanced LAN Technologies.

Expected learning outcomes

The course aims to give the student a deeper understanding of how routing and advanced features can be implemented and used in large IP-based networks.

After the student completes and passed the course, the student will be able to:

- describe and implement advanced routing protocols
- describe and implement complex network environments
- describe and implement basic network virtualization.

Content

The course blend theoretical and laboratory work and aims to provide knowledge of advanced routing protocols and complex IP-based network environments. The course will also discuss and introduce basic network virtualization.

The course covers the following topics:

- advanced external and internal routing
- advanced networking protocols and services
- basic network virtualization

Type of Instruction

Teaching is conducted in the form of seminars, lectures and laboratory exercises. Active participation in laboratory sessions is mandatory. Attendance at seminars and project presentation is required for completion of the course.

Examination

The course is assessed with the grades Fail (U) or Pass (G).

For the grade G is the expected learning outcomes to be achieved.

The grades are G (pass) and U (fail) for the project, seminars and labs. To receive a final grade, lowest grade G is required for each part of the course.

Student at Linnaeus University can have their scores of course translated into the seven-point ECTS scale. In order to get their scores translated the student will submit a request to the teacher at the beginning of the course.

Re-exams are offered within six weeks under the regular semester periods. The number of examinations are limited to five times.

Course Evaluation

A course evaluation will be carried out at the end of the course in accordance with the guidelines of the University. The result of the course evaluation will be filed at the department.

Required Reading and Additional Study Material

Odom, Wendell (2010). CCNP ROUTE 642-902: Official Certification Guide. Cisco Press.