



Faculty of Arts and Social Sciences
Information Systems

Syllabus

Cloud Foundations

Course Code:	ISGB38
Course Title:	Cloud Foundations <i>Cloud Foundations</i>
Credits:	7.5
Degree Level:	Undergraduate level
Progressive Specialisation:	First cycle, has less than 60 credits in first-cycle course/s as entry requirements (G1F)

Major Field of Study:
IKA (Information Systems)

Course Approval

The syllabus was approved by the Faculty of Arts and Social Sciences 2024-08-26, and is valid from the Spring semester 2025 at Karlstad University.

Prerequisites

22.5 ECTS credits completed in Information systems and registered for ISGB01 Database design, 7.5 ECTS credits, and ISGB36 Object-oriented modeling with programming, 7.5 ECTS credits, or equivalent

Learning Outcomes

Upon completion of the course, students should be able to:

1. describe the fundamental concepts of cloud services,
2. discuss the main components and principles of cloud architecture,
3. explain the principles of cloud security,
4. explain the principles of networking and content delivery in cloud services,
5. identify various computing services offered by cloud service providers, and
6. evaluate storage and database solutions used in cloud services.

Content

This course provides a general understanding of cloud service concepts. It offers a detailed overview of cloud fundamentals, provider-specific core services related to computing services, storage services, and database services. The course also covers topics such as cloud security and overall cloud architecture.

Reading List

See separate document.

Examination

Assessment is based on written hand-in assignments completed individually and in groups and presented and discussed in seminars.

If students have a decision from Karlstad University entitling them to Targeted Study Support due to a documented disability, the examiner has the right to give such students an adapted examination or to examine them in a different manner.

Grades

One of the grades Distinction (VG), Pass (G), or Fail (U) is awarded in the examination of the course.

Quality Assurance

Follow-up relating to learning conditions and goal-fulfilment takes place both during and upon completion of the course in order to ensure continuous improvement. Course evaluation is partly based on student views and experiences obtained in accordance with current regulations and partly on other data and documentation. Students will be informed of the result of the evaluation and of any measures to be taken.

Course Certificate

A course certificate will be provided upon request.

Additional information

The local regulations for studies at the Bachelor and Master levels at Karlstad University stipulate the obligations and rights of students and staff.