



## Semester beskrivelse

### Oplysninger om semestret

Semester: MED3, 3. semester, B.Sc. i Medialogi

Institut: [Arkitektur og Medieteknologi](#)

Studienævn: [Medieteknologi](#)

Periode: 1. september 2022 — 31. januar 2023

Studieordning: <https://studieordninger.aau.dk/2022/32/3320>

### Semestrets temaramme

Title: Visual computing

The main goal of the semester is to introduce students to the field of visual computing, and how it can be applied in the development of interactive multimedia applications. This knowledge will enable students to design digital media applications such as virtual and augmented reality, games, and even gesture-controlled interfaces from a video stream.

The three courses in the semester are designed to give the students an overview of the main technical aspects of visual computing, including the formation, capture, representation and manipulation of digital images (Image Processing), the representation, manipulation, animation and visualization of 3D content (Programming Interactive 3D Worlds), and the mathematical basis of image processing and computer graphics (Mathematics for Multimedia Applications).

In addition to the three courses, the students will work on a large project, where knowledge and skills from the three courses will be used in the development of a visual computing system.

### Semestrets organisering og forløb

The semester consists of a 15 ECTS group-based project module and three 5 ECTS course modules.

It is emphasized that AAU expects each student to spend 30 hours per day. ECTS credits, i.e. a total of 900 hours per term, which gives a workload of approx. 45 hours per week.

Project teams must select an initial problem statement from a list available on Moodle. The problem is then developed in collaboration with a supervisor appointed by the semester coordinator. Any proposals for other problem formulations must be approved by the semester coordinator.

The project is supported by courses, but students are expected to acquire the knowledge necessary for the group project themselves.

### Semesterkoordinator og sekretariatsdækning

[Georgios Triantafyllidis](#) (koordinator), [Elsebeth Andersen](#) (sekretær)