



SK2304 Photography advanced course 3.5 credits

Fotografi fördjupningskurs

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

Establishment

Grading scale

P, F

Education cycle

Second cycle

Main field of study

Engineering Physics

Specific prerequisites

Completed course SK1140 Photography for Media Technology, SK1141 Technical Photography, or an equivalent course.

Intended learning outcomes

After completing the course, the student shall be able to:

- integrate technical knowledge in photography with creative techniques to solve advanced photographic problems.

- analyze and deliberately apply principles of image composition and visual design to create photographs with communicative or aesthetic purposes.
- plan, carry out, and evaluate lighting in studio and existing environments to achieve specific visual effects in portrait and product photography.
- handle a basic analog photographic process, from exposure with a film camera to developing black-and-white film and digitizing negatives.
- independently plan, carry out, and present a photographic project within a chosen area, including method selection, problem-solving, and presentation of results.
- critically reflect on and evaluate one's own and others' photographic works from technical, aesthetic, and communicative perspectives.

Course contents

- **Systematic application of optics and sensor technology:** Practical analysis of how the choice of lens, aperture, and sensor characteristics affects resolution, depth of field, and image geometry in order to solve defined imaging problems.
- **Controlled lighting:** Methods for quantifying and controlling light (intensity, color temperature, direction) in studio and field environments to achieve predictable and reproducible results.
- **Optimized digital workflows:** Managing the entire image chain from RAW data to final image, including calibration, color management, and post-production to ensure technical quality.
- **Analysis of analog processes:** An introduction to the physical and chemical principles of film-based photography.
- **Applied project work:** A project in which students define, plan, and carry out a photographic production to solve a technical problem. The work is presented through a technical report and a portfolio that validates the achieved results.

Examination

- LAB1 - Lab work, 1.5 credits, grading scale: P, F
- PRO1 - Project work, 2.0 credits, grading scale: P, 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. If the course is discontinued, students may request to be examined during the following two academic years.

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.