



# A52D3C Performative design-studio 5:3 12,0 hp

Performative Design Studios 5:3

## Fastställande

Kursplan för A52D3C gäller från och med HT11

## Betygsskala

P, F

## Utbildningsnivå

Avancerad nivå

## Huvudområden

Arkitektur

## Särskild behörighet

Bachelor's Degree, or an equivalent level, within the field of Architecture.

Students are also expected to have followed the Performative Design Studio + passed 4th year studies

## Undervisningsspråk

Undervisningsspråk anges i kurstillfällesinformationen i kurs- och programkatalogen.

# Lärandemål

**\*\*Introduction (common for all projects in this studio)**

**\*\*The Studio will actively engage the technological and affective potentials of performative design in architecture. Performance can be understood as the incorporation of contingencies or parameters (material, technical, geometric, programmatic, social and economic) that inform the design process. The generative potential of digital tools makes it possible to use parametric design as a way of evolving new information systems, new modes of fabricating, and producing building components and architecture. Contrary to a linear design approach where technological processes are applied in the interest of the optimization and resolution of a design; this studio will adopt a bi-directional approach where technological processes (in the form of parametric design and computer aided fabrication) will be incorporated as drivers of design innovation.**

In order to formulate a distinction in the concept of performance that reflects its differential value in the contemporary context – both material and procedural - we will consider how technological performance coexists with affective performance, where technology is subsumed by the production of sensation. Immersed in an electronic paradigm that has vastly expanded in scope, moving beyond its capacity for representation to stage more profound forms of engagement, we will study the relationship between form, performance, and affect in contemporary architecture.

The studio aims at increasing the existing knowledge and enhancing skills within the field of performative design and to contribute to an increased comprehension of the discipline of architecture as a whole. The course sequence will establish new ways of thinking about design and fabrication, professional practice and its cultural impact. Upon completion of each project students are expected to have acquired knowledge and skills relevant to the context of the studio (competance in innovative architectural design strategies, competence in advanced digital modeling and fabrication, an awareness of contemporary architectural discourse); and to demonstrate an increased comprehension of the discipline of architecture as a whole.

## Overall goals

1. The course is part of the Performative Design Studio. The generation of digital tools makes it possible to use parametric design as a way of evolving new information systems, new ways of producing building components and architecture.
2. The course/project goal is to increase the student's knowledge in this area/field and skills/knowledge in the field of architecture in general. The students will enter the project with varying degrees of knowledge/skills and will subsequently end up at different levels at the end of the course/project.
3. The individual student must show an increase in the particular skills/knowledge offered in the studio and in the field of architecture in general.

## Learning outcomes

By the end of the course/project students shall have/should be:

- acquired further knowledge of digital production through the fabrication of a large-scale detail of their design proposal.
- able to assess their detail prototype, according to individually outlined criteria including structural, mechanical, and material aspects.
- gained further knowledge in contemporary architectural discourse in close relation to the design task.

## Kursinnehåll

Through the contact with industry students will develop their knowledge of digital production through the fabrication of a large-scale detail of their design proposal. This detail should be considered as a prototype through which the performance of the design can be assessed according to individually outlined criteria including structural, mechanical, and material aspects. The relationship of part to whole will be reconsidered as a dialogue between substance and space.

## Kursupplägg

The course is structured around weekly tutorials with students (2 times a week), a sequence of assignments or design tasks, a series of lectures, seminars and informal pinups. There will be two reviews with external invited jurors; Mid review and Final review.

## Kurslitteratur

Further information will be handed out at the start of the course.

## Examination

- PRO2 - Projekt, 3,0 hp, betygsskala: P, F
- PRO1 - Projekt, 9,0 hp, betygsskala: P, F

Examinator beslutar, baserat på rekommendation från KTH:s handläggare av stöd till studenter med funktionsnedsättning, om eventuell anpassad examination för studenter med dokumenterad, varaktig funktionsnedsättning.

Examinator får medge annan examinationsform vid omexamination av enskilda studenter.

När kurs inte längre ges har student möjlighet att examineras under ytterligare två läsår.

The course consists of two parts; a fulfilled and delivered project work (9 credits) and a passed final assessment (3 credits). There is at least one intermediate assessment during the course.

## Övriga krav för slutbetyg

### a) Presentation requirements

Drawings:

Siteplan

Floor plans

Sections and elevations

Drawings of the detail

Drawings showing the detail in the context of the whole proposal

Diagrams describing parametric strategies

Models:

Models of detail

Model of detail in the context of the whole proposal

Model of a selected part of project/proposal

Simulation of potential fabrication/production methods in drawings, physical models and/or models of tools for the production of the detail.

Research on fabrication procedures

To hand in at the latest one week after final review:

A CD with all the final material

Very well photographed models

A3 paper version of the presentation max 10 pages

Each semester all students must:

Have 80% attendance on all compulsory activities, including seminars and tutorials.

Attending reviews is compulsory.

If students are asked to do supplementary work after reviews to pass the course, these supplements should be handed in within a given timeframe.

Submit DESIGN task according to specifications

Submit RESEARCH task according to specifications

Participation in study trip or alternate activity. The studio presentation will be part of the future diploma portfolio and shall be delivered in an appropriate and fully qualified way.

## Etiskt förhållningssätt

- Vid grupparbete har alla i gruppen ansvar för gruppens arbete.
- Vid examination ska varje student ärligt redovisa hjälp som erhållits och källor som använts.
- Vid muntlig examination ska varje student kunna redogöra för hela uppgiften och hela lösningen.