ARCH1101

THE STAIR

THE STARS STUDIO TASK STAIRS STUDENT WORK

TODAY IN STUDIO

Note: Throughout the class students will be demonstrating modeling techniques using Sketchup.

1. Using the scheme you developed in SketchUp (and inspired by the stairs shown below) design two sets of stairs; one that goes from the above ground studio down to the showroom space and a second that comes from the below ground studio up to the showroom space.

2. Represent each stair with at least 2 sections. Keep all the notes, details and sections relating to each stair on one pair of facing pages. Or on two screens if you are using an iPhone, iPad or similar device.

3. In consultation with your tutor take another one of the sections created in the first studio session and design two sets of stairs for that scheme. Represent each of these new stairs with at least 2 sections.

By the end of the studio session you will have at least 8 sections (representing 4 sets of stairs).



STAIRS

Stairs are an interplay between form, material, structure and light. While primarily responsible for enabling transitions between vertically distributed spaces they can also activate a space through their sculptural presence. They are equally poetic and pragmatic.

The base component of a stair is called the tread. It is the (normally) horizontal element that you stand on. The vertical distance between each tread is called the riser. The riser might be physically present or not. The barrier to prevent someone falling off the stair or to assist them in climbing the stair is called the balustrade. Finally, some kind of structure is required to support the treads, risers and balustrades. In the examples below some of the the stairs are supported by central beam, or two beams (one on each edge), or they are cantilevered from the adjacent wall ... or supported by a structural balustrade.

When you consider the stairs shown below look for the components described above and try to imagine what the designer was intending by expressing them in the way they have.

Discuss with your classmates or your tutor to see if they come to a similar, complimentary or contrasting conclusion.

CATEGORIES

A note on how the stairs below are categorized:

The stairs shown below are grouped into several different categories. As is the case with any classification system there is always a little room for negotiation; in other words, stairs might fit in more than one category depending on how you define it. You should think about your own categories of stairs and start collecting examples (through images, drawings, models and animations/video) that inspire you.

The online social platform Pinterest is a good option for doing this.

LIGHT STAIRS











STRUCTURAL BALUSTRADE







CENTRE POMPIDOU, PARIS



VILLA VPRO, MVRDV













HEAVY STAIRS





UNSTUDIO MOBIUS STRIP HOUSE

E.A











DANIEL LIBESKIND: JEWISH MUSEUM



PHILLIPPE STARK



CARLO SCARPA





PETER ZUMTHOR THERMAL BATHS, VALS



CANTILEVERED STAIRS

www.dictionary.com

can·ti·le·ver [kan-tl-ee-ver] Noun

1. Any rigid structural member projecting from a vertical support, especially one in which the projection is great in relation to the depth, so that the upper part is in tension and the lower part in compression.

2. Building Trades, Civil Engineering: any rigid construction extending horizontally well beyond its vertical support, used as a structural element of a bridge (cantilever bridge) building foundation, etc.

3. Aeronautics: A form of wing construction in which no external bracing is used.

4. Architecture: A bracket for supporting a balcony, cornice, etc.

World English Dictionary (Collins)

1. A beam, girder, or structural framework that is fixed at one end and is free at the other





























OUTSIDE STAIRS



PERKINS EASTMAN. NYC + John Choi and Tai Ropiha. Sydney



TROY DONOVAN



















LAKE COMO. ITALY









HOUSE ON MYKONOS. MARC CORBIAU




GANGES RIVER. INDIA









LE CORBUSIER. CHANDIGARH



ROMAN RUINS. BATH. ENGLAND



CARLO SCARPA







OPERA HOUSE. SYDNEY



























SPIRAL STAIRS

















STEVEN HOLL





TATE MODERN LONDON







HOUSE AT BORDEAUX. REM KOOLHAAS




TETSUYA NAKAZONO



TETSUYA NAKAZONO









OLAFUR ELIASSON. MUNICH









ROSS LOVEGROVE. DNA STAIRCASE.

SHOP STAIRS



REM KOOLHAAS. OMA. PRADA. NYC

















MONUMENTAL STAIRS





NOTE THE UNEVEN TREADS AND RISERS IN THESE STAIRS



THIS MONUMENT IS A REFLECTION ON WAR.









ALDO ROSSI. MILAN





FAILURE





CASE STUDY

CARLO SCARPA




































ARCHITECTURE DESIGN STUDIO ARCH1101

STUDENT WORK



















HAYDEN WOOLDRIDGE





LI QIAN





REMI CRICK





YIMING SONG










ANDREW WEETMAN







DOMINIC BALEY











TANNY TAN



AARON BUCKLEY









CHRISTINE PHAN



HARRIS PANERAS







JESSICA WONG



Section //

what is a new second

Top: Inbetween: Below: Hazaan Motorworks Studio Exhibition Space Christian Benner Custom



Perspective //

Christian Benner Custom

NARISSA BUNGBRAKEARTI







SHENGYAN HUANG



YISHUN TANG





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By the end of the studio session you will have at least 8 sections (representing 4 sets of stairs).