

ARCH&UD 103: INTRODUCTION TO ARCHITECTURAL DESIGN STUDIO

UCLA AUD JumpStart 2021

Julia Koerner, Director

CASE STUDY HOUSE #8 SYLLABUS



The Eames House, built in 1949 in the Pacific Palisades, is considered one of the most important postwar residences in the USA. It is the Case Study house Number 8 and a National Historic Landmark.

Photography: Julius Shulman/J. Paul Getty Trust

“Design depends largely on constraints.” – **Charles and Ray Eames**

“The most important thing is that you love what you are doing, and the second that you are not afraid of where your next idea will lead.” – **Charles Eames**

OVERVIEW AND TOPIC:

A speculation on architectural form, space, order and material innovation through a study and transformation of a portion of a case study house comprising three stages:

A1: Examine and Document

A2: Multiply, Array and Transform

A3: Isolate and Elaborate

In this introductory studio, students will explore and materialize formations and constituents of architectural thresholds and kit of parts, in three phases, by first analyzing one of Los Angeles most famous case study houses, Number 8, the Eames house of 1949. Following that, students will then: multiply and situate those components within simple geometric arrays as a vehicle for further speculations on architectural space, form, order, and the inter-relationships of objects and fields. Concurrently students will transform a zone within that array (comprising at least two adjacent components,) and rethink construction logics through idea-driven model-making in preparation for the third and final stage of the studio. That last step will entail the isolation of that zone for final documentation. Each design phase will include both digital and analog two-dimensional and three-dimensional representation.

BACKGROUND:

The Eames house served as a blueprint for homes over the past seventy years. It was built fast and economically to meet surging post-war need. The house was erected in two days using materials ordered from catalogues, it was a triumph of innovation for its time.

Inspired by such a forward-thinking, experimental approach to the design of dwelling, student's task will be to unfold new spatial and formal arrangements comprising re-imagined parts that stimulate creatively framed passages and transitions within the dwelling landscapes of today.

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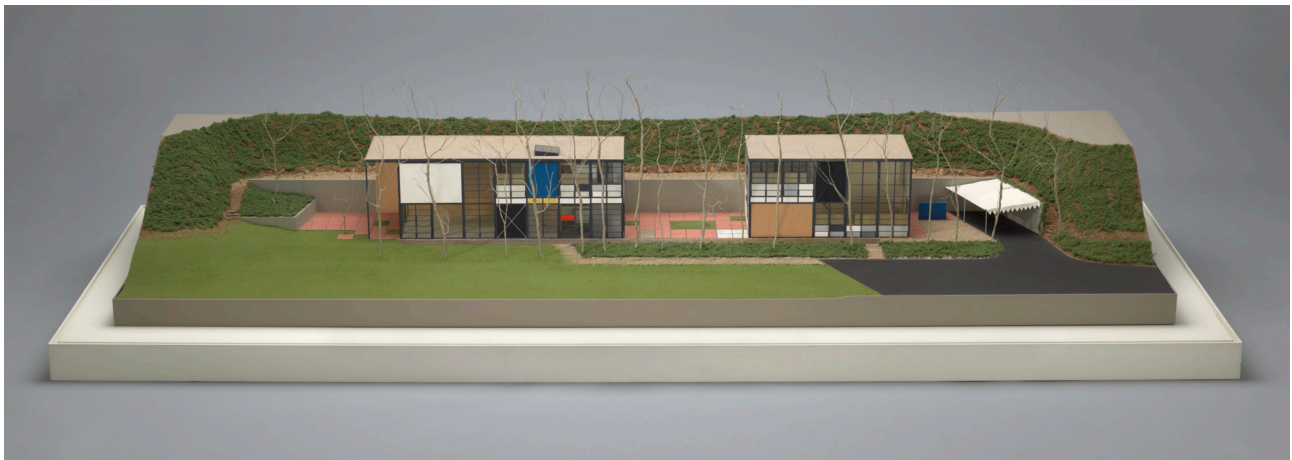
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OBJECTIVES:

JumpStart is a summer design studio that introduces students to conceptual and technical facilities essential to the study of architecture as a discipline. The course will inspire students to engage in idea-driven design.

Students will:

- Produce architectural representation via both orthographic and parallel projections.
- Develop digital models of existing and original designs.
- Build analog models using manual and digital fabrication tools.
- Learn to use 2-D and 3-D modeling and drawing software: Rhinoceros and Adobe Illustrator
- Communicate architectural ideas effectively across formats.
- Nourish those ideas with broader cultural thematics.



Eames House Physical Model By Derek Hamner, MOMA, Exhibition: How Should We Live? Propositions for *the Modern Interior*, October 1, 2016 – April 23, 2017.

ORGANISATION:

Students will be assigned an instructor and technical support instructor and online studio space. Studio time will be supported by several weekly lectures given by faculty and guest designers exploring many facets of idea-driven design. Software and fabrication tool tutorials will be provided each week as relevant to assignments.

The course is organized around design studio culture, which comprises a range of activities from desk critiques, to small group discussions, to studio-wide pin-ups, to final reviews with a panel of guest critics. Students' thoughtful production of design work in-between such activities is essential and should respond to the new materials and skills provided by instructors.

All of the above will be organized via distant learning format, online.

CREDIT HOURS: 6 units of UC credit

POLICIES & PROCEDURES

Attendance

Attendance is mandatory during online class time, dialogs, lectures, reviews, pin-ups, tutorials, and workshops. If you do not present your work at reviews, you will not receive credit for the studio. Some tutorials and lectures will be recorded and offered asynchronous.

Work culture and Absences

Students are required to work from home. All technical equipment needed for the course such as a laptop, and drawing material will need to be acquired by the participants prior to the start of the course. A document outlining these requirements will be made available prior to the opening of the course registration.

All activities requiring absence from online studio meetings i.e. purchasing materials or running project-related errands) should be scheduled outside of studio hours. Leaving in the middle of, or prior to the end of regularly scheduled studio times will result in an absence. Three unexcused absences will result in a failing grade.

Grading

Course grades will be determined based upon the quality of work produced, improvement over the course, completion of project requirements, participation, attendance, attitude and ethical conduct. Any questions regarding grades or policies should be directed to your instructor or to the program director. A passing grade in the course requires dedicated completion of all projects. Incomplete work will not be evaluated. Grades will not be issued prior to the completion of archiving procedures.

Archiving

At the conclusion of the summer program you will be asked to archive your work. There will be time to do so the morning before your final review. You will not receive your grade until these files are submitted. Save all of your files to the 2021 Student Work Google Drive folder.

Submit your individual photo or drawing files in 300 DPI JPGs with the following names:

JumpStart_2021_YourInstructorsLastName_YourLastName_01.jpg

Student Privacy

This program uses video recording or other personal information capture for the purpose of facilitating the course and/or test environment. Pursuant to the terms of the agreement with UCLA, the data is used solely for this purpose and any vendor is prohibited from disclosing this information. UCLA also does not use the data for any other purpose. Students may not distribute recordings or other instructional materials provided as part of remote learning by faculty, teaching assistants, or invited guests.



Charles Eames, Ray Eames Entry Panel for MoMA International Competition for Low-Cost Furniture Design (7990a) 1949

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RESOURCES:

JumpStart Faculty

Julia Koerner, Summer Programs Director, Assistant Adjunct Professor

juliakoerner@ucla.edu

Phillip Brown, Summer Session Lecturer

Kyoung Eun Park, Summer Session Lecturer

Spencer Hayden, Summer Session Lecturer

Morgane Copp, Summer Session Teaching Assistant

Wei Qiu, Summer Session Teaching Assistant

Carrie Gammell, Summer Session Teaching Fellow

Charley Andrews, Summer Session Administrative Assistant

UCLA Summer Institutes

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310-825-4101

institutes@summer.ucla.edu

Films and Interviews

House - after five years of living 1955 - Charles and Ray Eames

America Meets Charles and Ray Eames NBC "Home Show" 1956 - Charles and Ray Eames

Tops 1969 - Charles and Ray Eames

Design Q&A 1972 - Charles and Ray Eames

Power of Ten 1977 - Charles and Ray Eames

Readings and Articles:

AD Classics: Eames House - Charles and Ray Eames

<https://www.archdaily.com/66302/ad-classics-eames-house-charles-and-ray-eames>

The materials of the Eames House - Eames Foundation

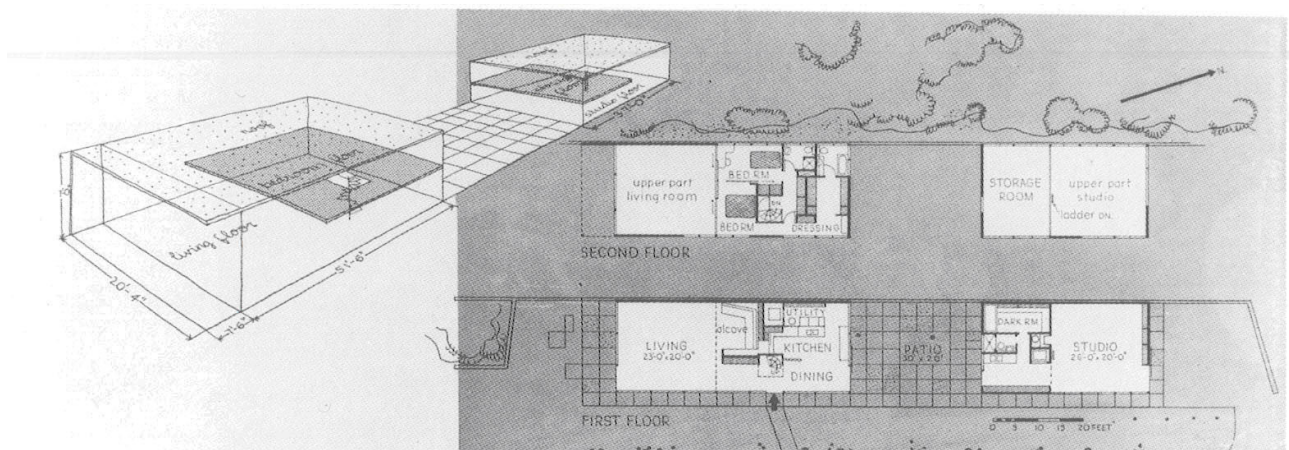
<https://eamesfoundation.org/news/the-materials-of-the-eames-house/>

Charles and Ray Eames: The couple who shaped the way we live - BBC Culture

<https://www.bbc.com/culture/article/20171218-charles-and-ray-eames-the-couple-who-shaped-the-way-we-live>

Getty Conservation Institute - Conserving the Eames House: A Case Study in Conservation

https://www.getty.edu/conservation/publications_resources/public_programs/conserving_eames_house.html



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Previous page: Axonometric and Plan Drawing AD Classics: Eames House / Charles and Ray Eames

Below: Charles and Ray Eames design processes between research, product & furniture design and architecture.



EXERCISES:

In **Exercise A1**, each student will analyze the whole building and pre-select one of the zones outlined in the plan above for preliminary examination and documentation in scale drawings and sketches from books and online sources. A series of online films and virtual tours through the house will help gaining familiarity with the house in its totality and confirmation (through measured drawings) of details and dimensions.

Output for this exercise will comprise nine drawings at $\frac{1}{4}'' = 1'-0''$: one plan, four elevations, two sections, two parallel projections (from opposing corners), and a partial physical model of the selected zone of study.

Attention should be paid to both boundaries and interiors, and their material constituents, dimensions and character-defining features – thickness of walls, thin planes, stick elements, transparent materials, ceiling heights, etc.

Instructors will provide students a template for presentations.

In **Exercise A2**, each student will first double their respective zones of study in a digital model by mirroring that zone around a corner and then, applying one, or more 3-dimensional transformations to at least half of the doubled zone (i.e. bend, overlap, scale, stretch, and so on in conversation with instructors.)

This initial multiplication will be further compounded with a geometrically driven plan-based exercise wherein students will situate clones of the zone in an array bounded by the invisible square boundary hovering over the building footprint of the Eames House site.

Students may choose from one of the following seven arrays:

- Circle in a Square
- Line in a Square
- Triangle in a Square
- Cartesian Grid

Inevitably the new array will result in a congested landscape, further heightening the notion of threshold.

Output for this exercise will comprise the following nine drawings at $\frac{1}{4}'' = 1'-0''$: plan, figure-ground, 6 sections of the final outcome, and an unfolded elevation of the initial doubled zone.

Instructors will provide students a template for presentations.

In **Exercise A3**, each student will isolate a segment (at least a quarter but no more than a third) of the new landscape and further elaborate on the objects, and spaces between them through drawings at $\frac{1}{2}'' = 1'-0''$. The drawings will form a suite of artifacts descriptive of a conceptually charged place at once both primitive and new. Students will assign a specific residential program (eg living room, suited, bedroom) to their segment and also speculate on methods of materiality, assembly, and construction.

Output for this exercise will comprise the following 4 drawings at $\frac{1}{2}'' = 1'-0''$: plan, worm's eye axonometric, unfolded elevation and compound serial section; as well as digital renderings or photographs of a physical model.

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Instructors will provide students a template for presentations.

Notes

Drawing panel sizes to be determined prior to each of the three Exercises.

Students will have the option to choose between the Morning (M) or Afternoon (A) Studio, if interested they can attend both. The Lunchtime Lectures, Tech Seminars, Model and Portfolio Workshops will be recorded and offered both synchronous and asynchronous. The Group Work sessions are encouraged but optional to attend, they serve as virtual studio environments where participants can ask questions and get technical support from Program Reps.

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SCHEDULE:

WEEK 1	MON	TUE	WED	THU	FRI
DATE	7/5/2021	7/6/2021	7/7/2021	7/8/2021	7/9/2021
10:00 - 11:00	INDEPENDENCE DAY OBSERVED	CHECK IN @10:30	STUDIO M Introduce A1 'EXAMINE AND DOCUMENT'	TECHNICAL SEMINAR M	STUDIO M
11:00 - 12:00		STUDIO M WELCOME AND INTRODUCTION	THEORY SEMINAR M	GROUP WORK SESSION	GROUP WORK SESSION
12:00 - 13:00					
13:00 - 14:00		Lunch Lecture Julia Koerner	Lunch Lecture Pegah Roshan Ismael Soto	Lunch Lecture Ben Freyinger Karin Ljegen	Lunch Lecture Eames House Lucia Dewey Atwood
14:00 - 15:00					
15:00 - 16:00		CHECK IN @15:30	THEORY SEMINAR A	GROUP WORK SESSION	GROUP WORK SESSION
16:00 - 17:00		STUDIO A WELCOME AND INTRODUCTION	STUDIO A Introduce A1 'EXAMINE AND DOCUMENT'	TECHNICAL SEMINAR A	STUDIO A
17:00 - 18:00					
WEEK 2	MON	TUE	WED	THU	FRI
DATE	7/12/2021	7/13/2021	7/14/2021	7/15/2021	7/16/2021
10:00 - 11:00	STUDIO M Review A1 Introduce A2 'MULTIPLY, ARRAY, TRANSFORM'	TECHNICAL SEMINAR M	STUDIO M	TECHNICAL SEMINAR M	STUDIO M
11:00 - 12:00					
12:00 - 13:00	GROUP WORK SESSION	GROUP WORK SESSION	THEORY SEMINAR M	GROUP WORK SESSION	THEORY SEMINAR M
13:00 - 14:00		Lunch Lecture Kristy Balliet Sara Moylan		Lunch Lecture Erin Day Keith Berry	
14:00 - 15:00					
15:00 - 16:00	GROUP WORK SESSION	GROUP WORK SESSION	THEORY SEMINAR A	GROUP WORK SESSION	THEORY SEMINAR A
16:00 - 17:00	STUDIO A Review A1 Introduce A2 'MULTIPLY, ARRAY, TRANSFORM'	TECHNICAL SEMINAR A	STUDIO A	TECHNICAL SEMINAR A	STUDIO A
17:00 - 18:00					
WEEK 3	MON	TUE	WED	THU	FRI
DATE	7/19/2021	7/20/2021	7/21/2021	7/22/2021	7/23/2021
10:00 - 11:00	STUDIO M Review A2 Introduce A3 'ISOLATE AND ELABORATE'	MODEL WORKSHOP M	STUDIO M	MODEL WORKSHOP M	STUDIO M
11:00 - 12:00					
12:00 - 13:00	GROUP WORK SESSION	GROUP WORK SESSION	THEORY SEMINAR M	GROUP WORK SESSION	THEORY SEMINAR M
13:00 - 14:00		Lunch Lecture Yara Feghali Ben Ennemoser		Lunch Lecture Michael Pickoff Brennan Buck	
14:00 - 15:00					
15:00 - 16:00	GROUP WORK SESSION	GROUP WORK SESSION	THEORY SEMINAR A	GROUP WORK SESSION	THEORY SEMINAR A
16:00 - 17:00	STUDIO A Review A2 Introduce A3 'ISOLATE AND ELABORATE'	MODEL WORKSHOP A	STUDIO A	MODEL WORKSHOP A	STUDIO A
17:00 - 18:00					
WEEK 4	MON	TUE	WED	THU	FRI
DATE	7/26/2021	7/27/2021	7/28/2021	7/29/2021	7/30/2021
10:00 - 11:00	STUDIO M Review A3 Introduce FINAL DOCUMENTATION	PORTFOLIO WORKSHOP M	STUDIO M	PORTFOLIO WORKSHOP M	FINAL REVIEW M
11:00 - 12:00					
12:00 - 13:00	GROUP WORK SESSION	GROUP WORK SESSION	THEORY SEMINAR M	GROUP WORK SESSION	
13:00 - 14:00		Lunch Lecture Simi Shenoy Ebrahim Poustinchi		Lunch Lecture Lindsay Erickson Craig Hodgetts	
14:00 - 15:00					
15:00 - 16:00	GROUP WORK SESSION	GROUP WORK SESSION	THEORY SEMINAR A	GROUP WORK SESSION	
16:00 - 17:00	STUDIO A Review A3 Introduce FINAL DOCUMENTATION	PORTFOLIO WORKSHOP A	STUDIO A	PORTFOLIO WORKSHOP A	FINAL REVIEW A
17:00 - 18:00					