# INTRODUCTION

ioud - Institute of Urban Design
825136 : PJ Entwerfen 3 – the city as a hybrid
UIBK Semester: WS 2026/ SS 2027

Instructors:
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Course Meetings:
Wednesday: 09.00 – open end

# CONTENT

## Course Description:

The aim of the course is to acquire specific knowledge of the fundamental organizational and formal principles of urban design [Phase 01], both during the course and through self-study. This knowledge should be gained at the beginning of the semester through various readings and further deepened by working on plans and 3D models. During the semester, this foundational knowledge will be applied in a new design hybrid. During the first weeks, students will develop and refine skills in 3D modelling, visualisation, and architectural design. This will be achieved through the development of a series of small-scale hybrids that combine architectural elements with geometric and functional units.
In the later part of the first semester, methods for the formal and organizational hybridization of individual sections of different cities will be developed [Phase 02]. The previously acquired knowledge will be applied and reinterpreted. As the project progresses, technical skills will be enhanced and further developed (see paragraphs below).
The final result should be a hybrid of different cities, where the characteristics and forms of the two original sections merge, creating new qualities.

Course Structure & Organization: (OLAT)
The course spans two semesters and meets weekly. Students are encouraged to form groups of two; grading is, of course, individual and based on performance.

# NEEDS

## Material Requirements:

A computer/notebook is required as a working tool; the work will be done digitally. At the end of the semester, a haptic (possibly 3D-printed) model will be produced. Prints will be needed for the exhibition at the end of the two semesters: the exact number will be determined during the upcoming semester. Books and articles will be provided by the instructors or can be found in the university library. As we will use an "AI-software", students will need access to "Midjourney".

## Tools and Techniques:

Software:

Given the course content and structure, digital techniques, conceptual thinking procedures and physical production will be necessary and equally weighted.

Software: Students are expected to employ Rhino throughout the semester and construct precisely measured and designed 3d models. Those virtual models will, in turn, create the physical model and series of drawings described below. The use of Adobe InDesign, Illustrator and basic Photoshop will be needed in order to layout

and compile a presentation and architectural drawings. As part of the design studio, participants will learn how to use 3DS-Max and Vray to create complex render scenes. The basics are taught via tutorials, but everyone is encouraged to learn on their own. Over the semester we will use different "AI-software" to explore design strategies.

Models: Students are expected to produce high-quality physical models at the end of the second semester.

Drawings: Section, floorplan, cutaway axonometric/oblique, worm's eye axonometric/oblique, sectional perspective; large-scale sections and elevations emphasizing spatial articulation, renderings and assemblies.

Software: Rhino, Adobe-Collection, 3DS-Max, Vray for 3DS-Max, Midjourney, Stable-diffusion

### Final Deliverables & Requirements & Assessment (OLAT):

The design studio will conclude with an exhibition at the end of the academic year (July). As part of the presentations, students develop sections, floor plans, 3D renderings and a haptic model, among other things. Because the design studio spans two semesters, collaboration plays a critical role. Although students work in groups of two, the individual role in this group work is assessed.
Collaboration, presence (both digital and in-person), independent thinking and work, contribution to collaborative tasks, and contributing their own ideas will all factor into the assessment, as will the final result.

## TIMELINE

### Course Schedule
(15-week listing of topics, lectures, major deadlines, exams, and due dates):

Phase 01:
Research cities: structure, organization, infrastructure, buildings, public and private areas, figure-ground relationships, etc.
Site plans, accurate 3D-Models, Rendering, floor plans

Phase 02:
3D-collages: Students will develop a specific method for combining different architectural and urban entities, thinking about functional, organizational, and formal qualities as well as the resulting impact on the internal and external infrastructure.

Design-studies: Focus on the hybridization of smaller entities (2D- and 3D-collages); how do buildings and infrastructure of different cities hybridize?
Site plans, accurate 3D-Models, Rendering, floor plans

Phase 03:
Midterms (January): site plan, 3D-Model (digital and haptic) and renderings of a specific area.
Determination of a future building site and connection to the local infrastructure.

- 3D-models and site-plans of the origin cities
- Floorplans, elevations and sections of various buildings and infrastructures; 3D-diagrams
- diagrams (method)
- 3d-model of "collages" (phase 02)
- 2 white renderings (maybe 1 textured)
- small 3D-print (10x10x10 – 20x20x20)

Phase 04:
Elaboration: definition of a final "area". Applying the developed method to the final area.

Phase 05 (July):
finals: dates will be announced as soon as possible:

- 3D-models and site-plans of the final project
- 3d-model of "collages"
- white renderings (1 textured)
- physical model
- photocollage of the project
- presentation

## READINGS

### Readings / Reference Material

Die Geschichte der Stadt, Campus Verlag,
Reyner Banham, Reyner Banham loves Los Angeles
Venturi, Scott Brown, Izenour. Learning from Las Vegas. MIT-Press, 1972.
Jeffrey Kipnis: Introduction to Architecture (1/8) -> Youtube
Bauentwurfslehre, Ernst Neufert, 1936
Universities: Institute of Architecture | Southern California
Weitzman School (upenn)
Die Angewandte (Vienna)
Architectural Association School of Architecture
The Bartlett School of Architecture UCL
UCLA Architecture and Urban Design

## SUBMISSION

### Grading Procedures:

Grades are determined based on the quality of work produced, progress and improvement over the course of the semester, completion of project requirements, quality of participation, attendance, attitude, and ethical conduct. Grading policies will be discussed during the first weeks of the studio, and any questions regarding grades or policies should be directed to the instructors. A passing grade in the course requires committed completion of all projects, including the institute archive in proper formats. Incomplete work will not be evaluated until the submission is completed. A failing grade is given whenever cumulative work, final work, and/or attendance are unsatisfactory. It is also given when a student fails to submit a final project or fails to take a final examination without prior approval from the instructor.

### Academic Integrity:

The integrity of the work of individuals is first and foremost a grading milestone. Student work that delivers the ideas or words of others as the student's own adversely impacts the whole faculty. Academic dishonesty, including cheating, plagiarism, commissioning academic work by others, or performing academic work on behalf of another student, is strictly prohibited and would result in a negative grade.

### Plagiarism:

This includes but is not limited to; copying words, images, or other material from a source without using appropriate citation rules such as quotation marks, footnotes, references, or other indications of the original source, paraphrasing another person's ideas in your own words without crediting the original source, taking sole credit for assignments without giving credit to those who worked with you, submitting work for a course that has already/also been submitted for another course or internet plagiarism, such as submitting work

either found or paid for online, failing to cite any internet sources used, or cutting and pasting sentences from various websites to create a collage of uncited words.

## Incomplete Work & Extension of time:

A student may receive a negative grade or no grade when the work is incomplete at the evaluation date by the end of the semester. By requesting permission from the instructor in good time prior to the date of the final examination or presentation, this can be avoided. Permission will be granted only under extraordinary circumstances and usually for medical reasons, requiring a medical document proving the situation. Incompleteness must be fulfilled to the instructor's satisfaction no later than two weeks after the end of the term.

## Archiving:

Students are required to submit physical examples of their work or digital examples no later than one week after the end of the term to their instructors or administration for archiving. This is a chance for students to have their work displayed or exhibited online and potentially featured in future institute publications or research projects. The instructors will provide a document titled the "Einwilligungsformular" that allows the institute to keep track of the agreement; if you wish not to permit this archival material to be published, please contact the institute secretary in good time.

## Learning Policy (Studios and Seminars):

The course meets in person (if necessary online) on Wednesday from 09.00 to open end. Attendance is mandatory at critiques, pin-ups, and reviews. If you do not present your work regularly, you will not receive a passing grade for the course. Students must have all required work related to the course during course hours (not at another location or other time). Students should not use course time to leave school to procure materials, run errands, etc. All activities that require one to be away should be scheduled to occur outside of course hours. Leaving in the middle of or before the end of regularly scheduled course times will result in an absence unless discussed with the instructors. Grades will be determined by the quality of work produced, an improvement over the course of the semester, completion of project requirements, quality of participation, and attendance.

All electronic recordings, image captures/screenshots (during zoom meetings), or audio recordings are strictly prohibited unless agreed upon or discussed beforehand with the instructors and participants.