

**Faculty:** Architecture and Design  
**Course Code & Number:** ARCH 302  
**Type of Course:** Compulsory  
**Course Credit Hours:** (2+8+0) 6 / 11 ECTS  
**Language of Instruction:** English

**Department:** Architecture  
**Course Title:** Architectural Design IV  
**Semester:** Spring 2024  
**Prerequisite:** ARCH301 (Architectural Design III)  
**Mode of Delivery:** -

## INSTRUCTORS

Aylin Alicanoğlu (RA)  
Can Aker  
Derin İnan  
Ekin Çoban Turhan  
Neşe Gurallar  
Seray Türkay

## CATALOG DESCRIPTION

Multi-dimensional design problems and spatial design solutions in urban context. Navigating between scales in the design process. Economy of space, modulation, repetition, and multiplication. Sustainability in architectural and urban scale. Requirements of spatial diversity, structural stability, mechanical services, and fire-and-life safety.

## COURSE OBJECTIVE

This course covers design problems in urban scale by accounting on the environmental, cultural, and social conditions. The course aims at developing an urban-based architectural understanding so that it urges the students to consider the total environment of architecture that is not restricted to the shaping of form, but dwells on multi-layered complex relations, operating at multiple scales in an urban context. It focuses on the problems of space economy, modulation, repetition, and multiplication of units and addresses the challenges of designing a multi-use complex that would include housing or accommodation. The course enables students to understand requirements for structural stability, mechanical services, and fire-and-life safety and integrate building systems to achieve sustainable and healthy living quarters.

## LEARNING OUTCOMES

Upon successful completion of this course, a student will be able to

1. develop methodological and strategic tools for economy of space, such as modulation, repetition and multiplication,
2. explore social and environmental inputs for producing sustainable and healthy living quarters,
3. identify the technical requirements for spatial diversity, structural stability, mechanical services, and fire-and-life-safety,
4. integrate building systems in line with the spatial and physical requirements of different program elements,
5. design by navigating between various scales of urban design and architecture,
6. solve multi-dimensional design problems considering urban context, urban typologies and multi-functional needs of the environment and the users.

## STUDENT WORKLOAD

Hands-on Work 140 hrs, others 160 hrs.

## EVALUATION *tentative*

Students will be evaluated on the basis of the quality and process of the work, the completion of assignments, and contribution to the studio environment.

Assignments:10%

Pre-Jury I: 20%

Pre-Jury II: 20%

Final Jury: 40%

Contribution and Attendance: 10%

### GRADING SYSTEM

For each course taken, the student is given one of the following grades by the course teacher. The letter grades, coefficients and percentage equivalents are given below.

AA	4.0 / 100-90
BA	3.5 / 89-85
BB	3.0 / 84-80
CB	2.5 / 79-75
CC	2.0 / 74-70 average
DC	1.5 / 69-60
DD	1.0 / 59-50
F	0.0 / 49-0
FX	0

### WEEKLY SCHEDULE *tentative*

20 February	Introduction & Syllabus
23 February	Mapping Urban Data & Analyzing Urban Conditions <b>L1: Analysing Urban Data</b> <b>AS01: Mapping Urban Data + Analyzing Urban Conditions</b>
27 February	Analysis: Urban Conditions <b>L2: Olgu Çalışkan, Urban Design &amp; Housing Settlements</b>
1 March	Analysis: Urban Conditions
5 March	<b>AS02: "What if" _1/500 3 mass models (digital)</b> WHAT IF: Site Conditions and Conceptual Mass <b>WANTED Kariyer Günleri</b>
8 March	WHAT IF: Site Conditions and Conceptual Mass + Programmatic Distribution <b>L3: Housing Typologies (video)</b>
12 March	<b>AS03: Case Study &amp; AS04: Initial Design Idea</b> Synthesis: Housing Typology + Multiplication Strategy
15 March	Synthesis: Housing Typology + Multiplication Strategy
19 March	Synthesis: Housing Typology + Multiplication Strategy + Programmatic Distribution
22 March	Synthesis: Housing Typology + Multiplication Strategy + Programmatic Distribution
26 March	<b>Pre-Jury I: Conceptual Design</b>
29 March	<b>Pre-Jury I: Conceptual Design</b>
2 April	Design Development: Structural & Mechanical Systems <b>L4: Heves Beşeli, Building Codes &amp; Fire Life Safety Requirements</b>
5 April	Design Development: Structural & Mechanical Systems
9 April	<b>Holiday</b>
12 April	<b>Holiday</b>
16 April	Design Development: Plan & Section Organization
19 April	Design Development: Plan & Section Organization

23 April	<b>Holiday</b>
26 April	Design Development: Plan & Section Organization <b>L5: Introduction to Seismic Issues in Architectural Design</b>
30 April	Design Development: Plan & Section Organization
3 May	<b>Pre-Jury II: Design Development</b>
7 May	Detailed Design: Façade + Material + Landscape
10 May	Detailed Design: Façade + Material + Landscape
14 May	Detailed Design: Façade + Material + Landscape
17 May	Detailed Design: Façade + Material + Landscape
21 May	<b>Pre-Jury III: Detailed Design &amp; Final Representation</b>
24 May	Detailed Design & Final Representation (all drawings + models)
28 May	Detailed Design & Final Representation (all drawings + models)
31 May	Detailed Design & Final Representation (all drawings + models)
<b>FINAL JURY</b>	<b>to be announced..</b>

### SUGGESTED READINGS

Aurora Fernández Per, Javier Mozas and Javier Arpa. *This is Hybrid: An Analysis of Mixed-use Buildings*. a+t Architecture Publishers, 2014.

Barbara Miller Lane. *Housing and Dwelling: Perspectives on Modern Domestic Architecture*, London and New York: Routledge, 2006.

Beatriz Colomina. "The 7/24 Bed," *Work, Body, Leisure*, ed. Marina Otero Verzier and Nick Axel, 2018. [<https://work-body-leisure.hetnieuweinstituut.nl/247-bed>]

Beatriz Colomina. "Privacy and Publicity in the Age of Social Media," *2000+ The Urgencies of Architectural Theory*, ed. James Graham. GSAPP Books, 2015, 118-131.

Berin Gür. "Evin Topografyası: Çinici Mimarlık'ın Mikroloft Projeleri", *Mimarlık*, 398, 36-42, 2017.

Caroline Dove. *Radical Housing: Designing Multi-generational and co-living housing for all*. London: RIBA Publishing, 2020.

Charles Rice. *The Emergence of the Interior: Architecture, Modernity, Domesticity*, London and New York: Routledge, 2006.

Christian Schittich (ed.). *In DETAIL\_Housing for People of All Ages: Flexible, Unrestricted, Senior-friendly*. Basel, Boston, Berlin: Birkhäuser, 2007.

Dana Cuff. *Architecture: the Story of Practice*, Cambridge, Mass.: The MIT Press, 1991.

Dave Parker and Anthony Wood. *The Tall Buildings Reference Book*, London and New York: Routledge, 2013.

David Levitt. *The Housing Design Handbook: A guide to good practice*, London and New York: Routledge, 2018.

Elie G. Haddad and David Rifkind, *A Critical History of Contemporary Architecture 1960-2010*, Farnham: Ashgate Publishing, 2014.

Günter Pfeifer and Per Brauneck. *Residential Buildings: A Typology*. Basel: Birkhäuser, 2015.

Jonathan Crary. *24/7: Late Capitalism and the Ends of Sleep*, New York: Verso, 2013.

Karel Teige. *The minimum dwelling*. Cambridge, Mass.: The MIT Press, 2002 [1932].

Peter G. Rowe and Har Ye Kan. *Urban Intensities: Contemporary Housing Types and Territories*. Basel: Birkhäuser, 2018.

Pier Vittorio Aureli. *The Possibility of an Absolute Architecture*, Cambridge, Mass.: The MIT Press, 2011.

Rem Koolhaas and Bruce Mau. *S, M, L, XL*, New York and Rotterdam: The Monacelli Press, 1995.

Rem Koolhaas. *Delirious New York: A Retroactive Manifesto for Manhattan*. New York: The Monacelli Press, 1994.

Roger K. Lewis. *Architect?: A Candid Guide to the Profession*, Cambridge, Mass.: The MIT Press, 2013.

Spiro Kostof. *The Architect: Chapters in the History of the Profession*, NY: Oxford University Press, 1977.

Stan Allen & Marc McQuade. *Landform Building: Architecture's New Terrain*, Lars Müller, 2011.

Stephen Kendall and Jonathan Teicher. *Residential Open Building*, London and New York: Routledge, 2000.

Weijen Wang. *Exhibition Catalogue: Vertical Fabric: Density in Landscape 100 Tower 100 Architects*, Hong Kong: The Hong Kong Institute of Architect, 2019.

## PERIODICALS

Architectural Record / Architectural Review / Domus / El Croquis / Arredamento / Mimarlık / Yapı / XXI

*Detail*\_Housing for Seniors; Living Together - Habitat Collectif

DASH - Delft Architectural Studies on Housing: <https://dash-journal.com/about-dash/>

AD *Architectural Design*\_SU+RE: Sustainable and Resilient Design Systems (vol.88 issue 1, 2018):

<https://onlinelibrary.wiley.com/toc/15542769/2018/88/1>

## ARCHITECTURAL WEBPAGES

Archdaily: <http://www.archdaily.com/>

Arkitera: <http://www.arkitera.com/>

World of Architecture: <http://www.worldofarchi.com/>

## STUDENT SERVICES INFO

### o Student Development and Psychological Counseling Centre:

Student Development and Psychological Counseling Centre is mandated with providing crisis intervention and supportive listening services to the campus community. The Center conducts individual counseling, group guidance studies, workshops, seminars, and orientation studies for all students in need. You may apply to the Center in order to deal with all your current problems.

For further information and/or questions: [ogrencidanismamerkezi@tedu.edu.tr](mailto:ogrencidanismamerkezi@tedu.edu.tr), <http://csc.tedu.edu.tr/>

### o TEDU Without Barriers Unit:

Please inform the TEDU Without Barriers Unit and the instructor of the course about the specific issues in case you have a physical or mental disability and are having trouble with anything related to this course—such as accessing the material, participating in the class, taking notes, preparing for, attending or managing to complete the exams. Your situation will be reviewed by commission, in accordance with the principle of confidentiality, and if deemed appropriate, facilitating measures will be taken so that you can take the course more efficiently.

For further information and/or questions: [engelsiz@tedu.edu.tr](mailto:engelsiz@tedu.edu.tr), <https://www.tedu.edu.tr/engelsiz-tedu>