

Fundamental Architectural Design

Course Code	LADES4139	Discipline	Art and Design
UK Credit	25	US Credit	6
FHEQ Level	4	Date Approved	July 2023
Core Attributes	EI; ND <i>subject to approval by NU Committee</i>		
Prerequisites			
Co-requisites	LADES4140 Fundamental Architectural Representation		

Course Overview

This course introduces students to the fundamentals of architectural design. Through a series of exercises, students learn to *design* design itself - to consciously frame an architectural project, before engaging it. These exercises will introduce students to this new mode of thinking and working, one that requires an iterative process of inquiry. Students will learn to develop architectural concepts and design proposals through the investigation of spatial and formal concepts culminating in the fundamental understanding of key architectural principles and design methodologies.

Learning Outcomes

On successful completion of the course, students will be able to:

Knowledge and Understanding

- K1a Demonstrate an understanding of iterative design and its importance in architectural design.
- K2a Identify and analyse fundamental tectonic and spatial ordering skills.
- K3a Demonstrate the ability to communicate a spatial and structural architectural concept through the development of a visual presentation comprised of: Orthographic drawings, Architectural Models, Diagrams and reductive analytical drawings

Subject Specific Skills

- S1a Conduct structural and spatial analysis of successful architectural projects through the implementation of drawings and reductive diagrammes.
- S2a Develop an iterative design methodology through a series of exercises that build on one another in an effort to understand the evolution, complexity, and process of architectural design.

Transferable and Professional/Employability Skills

- T1a Develop critical thinking skills through rigorous analysis of the cultural and spatial context of the built environment.

Teaching and Learning

Teaching and learning strategies for this course will include:

A minimum of 60 contact hours, typically to include interactive group teaching, co-curriculars, individual meetings, and in-class presentations and exams.

Course information and supplementary materials are available on the University's Virtual Learning Environment (VLE).

Students will receive individualised developmental feedback on their work for this course.

Students are required to attend and participate in all the formal and timetabled sessions for this course. Students are also expected to manage their directed learning and independent study in support of the course.

Assessment

Formative

Students will be formatively assessed in class through class activities, and during office hours. Formative assessments are ones that do not count towards the final grade but will provide students with developmental feedback.

Summative

AE	Assessment Activity	Weighting (%)	Duration	Length
1	Artefact	20	1-2 days	
2	Artefact	30	2-3 days	
3	Artefact	50	5-7 days	

Further information on the structure of summative assessment elements can be found in the Summative Assessment Briefs.

Feedback

Students will receive formative feedback in a variety of ways: written (including via email correspondence); oral (within class time during design exercises and office hours where appropriate) and indirectly through group discussions.

Feedback on examinations is provided through generic internal examiners' reports and are made available to the student on the VLE. For all other summative assessment methods, feedback is made available to the student either via email, the VLE or another appropriate method.

Indicative Reading

Note: Comprehensive and current reading lists for courses are produced annually in the Course Syllabus or other documentation provided to students; the indicative reading list provided below is used as part of the approval/modification process only.

Books

- Koolhaas, Rem. *Elements of Architecture*. Taschen, 2014.
- Bo Bardi, Lina. *Stones Against Diamonds*. AA Publications, 2013
- Venturi, Robert. *Complexity and Contradiction*. Museum of Modern Art, 1966
- Goldsmith, Selwyn. *Universal Design*. Routledge, 2000.
- Le Corbusier. *Towards a New Architecture*. John Rodker, 1927. Originally "*Vers une architecture*", published 1921.
- Cullen, Gordon. *The Concise Townscape*. Taylor and Francis, 1961
- Ching, Francis. *Form, Space, and Order*. John Wiley & Sons Inc. 2014

- White, Edward. Site Analysis: Diagramming Information for Architectural Design
- Clark, Roger and Pause, Michael. Precedents in Architecture: Analytic Diagrams, Formative Ideas, and Partis. John Wiley & Sons, 2004.
- Andrea Simitch, The Language of Architecture: 26 Principles Every Architect Should Know. Rockport Publishers. 2014

Indicative Topics

Students will typically study the following topics:

- Iterative Design: Understanding and Importance
- Tectonic and Spatial Ordering in Architectural Design
- Precedent Analysis in Architecture: Methods and Applications
- Documenting, Analysing, and Critiquing the Built Environment
- Architectural presentation including drawings, models, and diagrammes

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1.0	July 2023	September 2023	Dr Marianna Koli	July 2028	