Course guide
210335 - STCP - Territory, City and Design Seminar

Last modified: 09/06/2026

Unit in charge: Barcelona School of Architecture
Teaching unit: 740 - DUTP - Department of Urbanism, Territory and Landscape.

Degree: DEGREE IN ARCHITECTURE STUDIES (Syllabus 2014). (Optional subject).

Academic year: 2026 **ECTS Credits:** 3.0 **Languages:** Catalan, Spanish

LECTURER

Coordinating lecturer: INÉS AQUILUÉ JUNYENT

Others: Segon quadrimestre:
INÉS AQUILUÉ JUNYENT - TCP
CARLES CROSAS ARMENGOL - TCP

REQUIREMENTS

PROJECTES V - Prerequisit
PROJECTES VI - Prerequisit
TALLER TEMÀTIC II - Corequisit

TEACHING METHODOLOGY

LEARNING OBJECTIVES OF THE SUBJECT

- Provide students with concepts and techniques for advanced cartographic representation at territorial and urban scales.
- Accompany students in learning Geographic Information Systems (GIS) as a tool for evidence-based design projects.
- Provide students with the knowledge to incorporate geolocated urban data as a necessary factor for making complex city and territorial design decisions.
- Incorporate topological network analysis into interpretative cartographies of the territory, especially related to the study of mobility and flows.
- Introduce students to using advanced GIS systems to validate and simulate proposals.

STUDY LOAD

Type	Hours	Percentage
Self study	47,0	62.67
Hours large group	28,0	37.33

Total learning time: 75 h

CONTENTS

M1. Collaborative territorial cartographies

Description:
The first module addresses the construction of collaborative territorial cartographies, using the exploration of reality from manual or assisted drawing. It is a group work that seeks to discover the territorial and urban logic that explain certain metropolitan challenges, followed by a rigorous and intentional representation.

Full-or-part-time: 4h
Theory classes: 4h

M2. Geographic Information System

Description:
The second module introduces GIS tools (Geographic Information Systems - QGIS) for territorial analysis through its application on the project scope of the Taller Temàtic studio.

Full-or-part-time: 14h
Theory classes: 14h

M3. Simulation and validation of proposals

Description:
The third module develops simulations and validation of proposals using advanced GIS tools, especially those linked to the study of topology and spatial configurations.

Full-or-part-time: 12h
Theory classes: 12h

GRADING SYSTEM

Any academic fraud, plagiarism or use or possession of unauthorised means in an assessment activity leads to a mark of zero (0) for the affected test or assignment. Furthermore, in accordance with the University's regulations, if disciplinary proceedings are initiated the subject is recorded as "Pending Assessment" until a decision is reached. These incidents are managed in accordance with the **Action Framework for Academic Integrity in Assessment at the UPC**.

BIBLIOGRAPHY

Basic:
- Desimini, Jill; Waldheim, Charles; Mostafavi, Mohsen. Cartographic grounds: projecting the landscape imaginary. New York: Princeton Architectural Press, [2016]. ISBN 9781616893293.
- McHarg, Ian L. Design with nature. New York [etc.]: John Wiley & Sons, cop. 1992. ISBN 0471557978.
- Eizaguirre i Garaitagoitia, Xabier. El Territorio como arquitectura. Primera edición. Barcelona: Laboratori d'Urbanisme de Barcelona (UPC), febrero 2019. ISBN 9788498807370.
- Crosas Armengol, Carles. Metròpolis Barcelona. Barcelona: Àrea Metropolitana de Barcelona, 2015. ISBN 9788487881145.
- Font Arellano, Antonio. La Explosión de la ciudad: transformaciones territoriales en las regiones urbanas de la Europa Meridional. Barcelona: Ministerio de Vivienda: Col·legi Oficial d'Arquitectes de Catalunya, DL 2007. ISBN 8496387259.

Complementary:
- Hillier, Bill; Hanson, Julienne. The social logic of space. Cambridge: Cambridge University Press, 1984. ISBN 0521233658.
- Berghauser Pont, Meta; Haupt, Per. Spacematrix: space, density and urban form. ©2021. ISBN 9789462085381.

- Kaijima, Momoyo; Kuroda, Junzo; Tsukamoto, Yoshiharu. Made in Tokyo. Tokyo: Kajima Institute, 2001. ISBN 4306044211.
- Parcerisa, Josep; Rubert de Ventós, Maria. Metro : galàxies metropolitanes = galaxias metropolitanas = metropolitan galaxies. Barcelona: Transports Metropolitans de Barcelona : ETSAB : Edicions UPC, 2002. ISBN 8483016559.
- A+U Urban Science and New Design Tools. Tokyo: A+U, 2021.

RESOURCES

Hyperlink:
- Enllaç a QGIS (software lliure). https://www.qgis.org/en/site/