



Course guide

290294 - CARITORR - Streets & Streams. Integrating Infrastructure, Ecology and Society

Last modified: 17/07/2026

Unit in charge: Vallès 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:** English

LECTURER

Coordinating lecturer: González Bereziartua, Madalen
Fiallo Cardona, Gloria Carolina

Others: Sotoca Garcia, Adolfo

PRIOR SKILLS

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REQUIREMENTS

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TEACHING METHODOLOGY

The intensive workshop will combine different teaching methodologies, with the aim of testing intervention proposals that work on the physical, functional and social integration of the infrastructure with its environment.

The format will be of workshop and will include:

- Instrumental sessions on the field of work, lead by professors and local agents.
- Workshop sessions in groups of international students and professors.
- Guided tours in the territory.

LEARNING OBJECTIVES OF THE SUBJECT

Intensive workshop addressing the C-31 highway as a catalyst of metropolitan integration. It will bring together international students to imagine a different paradigm for the main transversal axis of the Besòs River delta in the Metropolitan Area of Barcelona.

The main objective of the subject is to test ideas of integration projects for specific areas of the C-31, on the left margin of Besòs, promoting the work of students in international teams. Thus, the objective will be:

- To understand the project from the disciplinary tools of the profession and, in particular, from the attention to the place in its broadest sense.
- To develop the concept of territorial integration, from the physical-urban, functional-ecological and social-metropolitan point of view.
- To evaluate the intervention options according to their environmental, social and economic balance.
- To practice the communication of the architectural project in all its aspects; oral, written and graphical tools.

STUDY LOAD

Type	Hours	Percentage
Hours medium group	30,0	100.00

Total learning time: 30 h

CONTENTS

Streets & Streams. Integrating Infrastructure, Ecology and Society

Description:

The workshop "STREETS&STREAMS: Integrating Infrastructure, Ecology and Society" will be an intensive project-based workshop focusing on the integration of the C-31 highway within the Besòs Delta area.

The workshop is promoted by the RUMB Chair, jointly held by the two architecture and urbanism schools of the UPC —ETSAV and ETSAAB—, within the framework of an international Winter School.

The target audience consists of Master's or Bachelor's students in architecture, landscape and urbanism from various schools across Europe.

During the five-day workshop, students will work in teams to develop integration project ideas for specific areas along the C-31 highway, on the left bank of the Besòs River.

This integration is understood in several ways:

1. Physical-urban integration, deconstructing barriers between neighbourhoods.
2. Functional and ecological integration, blending mobility infrastructures with other fundamental urban infrastructures, especially river and green networks.
3. Social-metropolitan integration, deconstructing the sense of periphery in marginal territories, and bringing cohesion to the city through sustainable mobility, distributed centralities, and balanced land use.

Within the scope of the C-31, the groups will be divided into 3 or 4 specific locations along this highway, each with distinct and diverse characteristics that emphasize a particular theme or feature (e.g., the relationship between the city and the environment, centralities, or social cohesion in urban fabrics severed by the highway).

Through this intensive laboratory, we expect to generate diverse and timely ideas to foster the public debate on how to approach the C-31 and what its future integration could look.

Specific objectives:

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Related activities:

Workshop sessions.

Field work and visits to institutions.

Full-or-part-time: 40h

Theory classes: 5h

Laboratory classes: 35h

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](#).

The development of the subject will take place through an exercise, to be carried out in small groups of students, mixing the students of different schools.

The workshop will culminate with a joint presentation of the results of the different teams, which will be commented and evaluated by international professors.

Valuation criteria:

- Morphological, environmental and social recognition of the place of intervention (20%)
- The definition of objectives and intervention strategies (30%)
- The architectural formalization of possible integration proposals (30%)
- Proactive participation and collaboration among students (20%)

EXAMINATION RULES.

Continuous evaluation.

Includes: Attendance and compulsory participation; Participation in group work; Exercises and documents that are prepared during the course.

BIBLIOGRAPHY

Basic:

- Busquets, J. & Harvard University. Graduate School of Design. Barcelona: the urban evolution of a compact city [on line]. Novato: Applied Research & Design, 2014 [Consultation: 17/07/2026]. Available on: https://discovery.upc.edu/permalink/34CSUC_UPC/4ueca8/alma991004036169706711. ISBN 9781940743059.
- Crosas Armengol, Carles & Gómez Escoda, Eulàlia. Metro·Mix: proximidad y mixticidad para una ciudad saludable [on line]. Recolectores Urbanos (RU editorial), 2014 [Consultation: 17/07/2026]. Available on: <https://hdl.handle.net/2117/424272>. ISBN 978-84-126610-9-5.
- Gehl, Jan. Cities for people [on line]. Washington, DC: Island Press, 2010 [Consultation: 17/07/2026]. Available on: https://discovery.upc.edu/permalink/34CSUC_UPC/i7glq6/alma991003995589706711. ISBN 9781597265744.
- Jacobs, Jane. The Death and life of great American cities [on line]. Harmondsworth, Middlesex, England: Published in Pelican books, 1964 [Consultation: 17/07/2026]. Available on: https://discovery.upc.edu/permalink/34CSUC_UPC/4ueca8/alma991005517216806711. ISBN 0140206817.
- Lefebvre, Henri. The Production of space [on line]. Oxford: Blackwell, 1991 [Consultation: 17/07/2026]. Available on: https://discovery.upc.edu/permalink/34CSUC_UPC/i7glq6/alma991001968189706711. ISBN 0631181776 (pbk).
- Secchi, Bernardo & Viganò, Paola. La ville poreuse : un projet pour le grand Paris et la métropole de l'après-Kyoto [on line]. Genève : Métispresses, 2011 [Consultation: 17/07/2026]. Available on: https://omnia.udg.edu/permalink/34CSUC_UDG/ob65fl/alma991000100699706713. ISBN 9782940406562.
- Solà-Morales, Manuel. Deu lliçons sobre Barcelona : els episodis urbanístics que han fet la ciutat moderna = Ten lessons on Barcelona : urbanistic episodes that have made the modern city [on line]. Barcelona: Col·legi d'Arquitectes de Catalunya, 2008 [Consultation: 17/07/2026]. Available on: https://discovery.upc.edu/permalink/34CSUC_UPC/i7glq6/alma991003363629706711. ISBN 9788496842236.
- Viganò, Paola. Water and asphalt : the project of isotropy [on line]. Zürich : Park Books, 2016 [Consultation: 17/07/2026]. Available on: https://discovery.upc.edu/permalink/34CSUC_UPC/i7glq6/alma991004106239706711. ISBN 9783906027715.

RESOURCES

Audiovisual material:

- Nom recurs. Resource
- PIU Barcelona (Informació urbanística). <https://ajuntament.barcelona.cat/informaciourbanistica/cerca/es/>



Hyperlink:

- Àrea Metropolitana de Barcelona (Cartografia):
<https://geoportalcartografia.amb.cat/AppGeoportalCartografia2/index.html?locale=es> - Sede electrónica del Catastro.
<https://www.sedecatastro.gob.es/>

Other resources:

ICGC: Institut Cartogràfic i Geològic de Catalunya: <http://srv.icgc.cat/appdownloads/> />

Àrea Metropolitana de Barcelona (Cartografia):

<https://geoportalcartografia.amb.cat/AppGeoportalCartografia2/index.html?locale=es> />

Sede electrónica del Catastro: <https://www.sedecatastro.gob.es/> />

PIU, Barcelona: <https://ajuntament.barcelona.cat/informaciourbanistica/cerca/es/> />

Àrea Metropolitana de Barcelona. Geoportal de planejament:

<https://geoportalplanejament.amb.cat/AppGeoportalPlanejament2/index.html?locale=ca> />

MUC. Mapa urbanístic de Catalunya: <http://dtes.gencat.cat/muc-visor/AppJava/home.do> />

RPUC, Registre de Planejament Urbanístic de Catalunya:

<https://dtes.gencat.cat/rpucportal/inici/ca/index.html> />

Serveis web geogràfics, Departament de Territori i Sostenibilitat, Generalitat de Catalunya:

https://territori.gencat.cat/es/01_departament/12_cartografia_i_toponimia/serveis_web_geografics/ />

Generalitat de Catalunya. Plans: https://territori.gencat.cat/ca/01_departament/05_plans/ />