

## Course guide

### 310759 - 310759 - Drawing Links and Surfaces

Last modified: 06/06/2024

**Unit in charge:** Barcelona School of Building Construction  
**Teaching unit:** 752 - RA - Departamento de Representación Arquitectónica.

**Degree:** BACHELOR'S DEGREE IN ARCHITECTURAL TECHNOLOGY AND BUILDING CONSTRUCTION (Syllabus 2019).  
(Optional subject).

**Academic year:** 2024    **ECTS Credits:** 3.0    **Languages:** Catalan, English

#### LECTURER

**Coordinating lecturer:** Esquinas Dessy, Jesús

**Others:**

#### PRIOR SKILLS

Knowledge of digital design tools (AUTOCAD o ARCHICAD o REVIT o ... )

#### REQUIREMENTS

Having passed: Architectural Drawing

#### TEACHING METHODOLOGY

The course will be developed following a "Studio" method based on "active learning" ("Learning from doing"). In this sense, in the course the students will work graphically on a reference building of a specific materiality from a list suggested by the teacher.

Among the suggested themes, after some exploratory work "in situ", through presentations and a collective debate, one will be adopted to develop it graphically in detail. A graphic base will be prepared in digital format, to later be produced with the digital or traditional media that each one considers most appropriate.

All the material will be available at ATENEA. In the "workshop", the students will contribute their own graphic documents and will be critically commented among all the participants in order to share the knowledge discovered.

#### LEARNING OBJECTIVES OF THE SUBJECT

The objective of the subject is to get familiar with systems of architectural representation, digital or manual or hybrid, which helps to the student to "understand" and "make understood" the final aspects of the built of the volumes or surfaces that provide a certain quality of materiality to the spaces.

#### STUDY LOAD

Type	Hours	Percentage
Hours large group	30,0	40.00
Self study	45,0	60.00

**Total learning time:** 75 h

## CONTENTS

---

### BONDS, DRAWING BONDS

**Description:**

There are some spaces that, when lived, they generate a pleasant feeling of good execution. Getting this feeling is not easy, it goes beyond simply building, it has to do with building with a certain care.

The theme of the course is to bring students to the value of materiality in the perception of spatial reality of the built volumes.

This perception is understood to be generated by a very determined visual quality of the construction details that affect the finishes. The course will explore architectural representation systems to "understand" and "make understand" the connections between construction details that provide a concrete quality of materiality to the spaces.

**Related activities:**

- Analysis of the materiality of the constructed reality (field work)
- Sketching of graphic bases (support plans)
- Post production of final sheets

**Full-or-part-time:** 2h

Practical classes: 2h

## GRADING SYSTEM

---

Continuous evaluation formed by:

Preparation and presentation of the topic: 20%

Elaboration of the graphic bases: 30%

Sheet presentation: 40%

Active participation in visits and debates 10%

## BIBLIOGRAPHY

---

**Basic:**

- Calderón, Ana Victoria. *Acuarela creativa : guía paso a paso para principiantes*. Barcelona: Gustavo Gili, S.L., 2019. ISBN 9788425231827.
- Migliari, Riccardo. *Fondamenti della rappresentazione geometrica e informatica dell'architettura*. Roma: Kappa, cop. 2000. ISBN 8878903566.
- Herzog, Thomas; Krippner, Roland; Lang, Werner. *Facade Construction Manual* [on line]. Basel: Birkhäuser, 2004 [Consultation: 18/06/2024]. Available on: <https://doi.org/10.11129/detail.9783034614566>. ISBN 3764371099.
- Izquierdo Asensi, Fernando. *Geometría descriptiva*. 16a ed., corr. Madrid: Dossat, 1985. ISBN 8423701514.
- Scheinberger, Felix. *Acuarela para urban sketchers : recursos para dibujar, pintar y narrar historias en color*. Quarta reimpressions: 2019. Barcelona: Gustavo Gili, 2015. ISBN 978-84-252-2754-7.
- Foley, James D. *Computer graphics : principles and practice*. 2nd ed. in C. Reading [etc.]: Addison-Wesley, cop. 1996. ISBN 0201848406.