

Urban ecology

**ECTS**

8 crédits

**Hourly volume**

156h

Introducing

Location(s)

 Toulouse

Objectives

Cities are places of high density of people, of goods and of services but also places of high resources consumption. This class will address this peculiar situation by thematic entry points in the complexity of the urban system, to develop a common methodological knowledge on urban ecology.

The entry points selected are: Energy and the city, Water and the City, Transport and mobility, urban waste and contaminated soil. All these courses are mandatory.

Knowledge on energy will focus on energy management in the city, eco-districts, and the link between urban form and energy consumption; on urban water management; on management of urban processes and key characteristics of urban waste.

Expected competencies are to be able:

- to develop comprehensive approaches to take into account the complexity of the city and urban networks,
- to evaluate the energy consumption of a neighbourhood,
- to scale various water networks, and systems management of storm water,
- to design strategies of urban mobilities
- or to be able to participate in the organization of waste management for communities, knowing the key recovery and treatment processes.

Practical info