



**NAAB International Certification**

**Appendix 1: Template for Course Descriptions - Electives [limit 1 page per course]**

**Number & Title of Course (total credits awarded):**

ELURB4&501 - Architecture & Urbanism in a Transdisciplinary and Sustainable Framework - Semester - ECTS -  
Cicle/Profile: - Scientific Area:

**Course Description (limit 25 words)**

To contextualize urban planning and architecture in a transdisciplinary perspective and to research and propose design solutions that contribute to sustainability

**Course Goals & Objectives (list):**

- 1) The student will be able to analyze and to calculate the ecological footprint and the impact of urban areas on a given territory
- 2) The student will acquire and increase his/her knowledge of solutions and systems that foster urban and architectural sustainability
- 3) Combine the knowledge gained during the semester in order to design a project that will be an addition to design sustainability

**Student Performance Criterion addressed (list number and title):**

Primary - A.2 Design Thinking Skills; B.2 Site Design; B.6 Environmental Systems; B.8 Building Materials and Assemblies; C.1 Research; Secondary -

**Topical Outline (include percentage of time in course spent in each subject area):**

Studio Work; 40%  
Site Visits; 10%  
Lecturing; 40%  
Critics; 10%

**Textbooks/Learning Resources:**

Castelbranco A., Turchanina O. (2017) Proportion & Urbanism & Environment, Archibooks, Lisboa  
Allen J. (1991) Biosphere2, The human Experiment, Penguin Books, New York  
Hawes P., Castelbranco A. (1994) A Biosfera 2 como um Exemplo da Transdisciplinaridade, 1º Congresso da Transdisciplinaridade, Convento da Arrábida.

**Offered (semester and year):**

2nd Year - Fall;

**Faculty assigned (list all faculty assigned during the two academic years prior to the visit):**

António da Fonseca Ataíde Castel'branco;