



## Study Plan

**School:** School of Sciences and Technology  
**Degree:** \*\*\* TRANSLATE ME: Pós-Graduação \*\*\*  
**Course:** Environment, Sustainability and Education (cód. 375)

### 1st Year - 1st Semester

Component code	Name	Scientific Area Field	ECTS	Duration	Hours	
Group of Options						
Component code	Name		Scientific Area Field	ECTS	Duration	Hours
PAO10041O	Ecology, Standards and Processes		Environment and Ecology Sciences	6	Semester	156
FIL10042O	Conceptions of Nature, Environment and Landscape		Philosophy	3	Semester	78
PAO10047O	Habitats: Management and Conservation		Environment and Ecology Sciences	6	Semester	156
INF10048O	Introduction to e-learning and colaborative tools		Informatics	3	Semester	78
FIL10043O	Aesthetics of Landscape and Nature		Landscape Architecture	6	Semester	156

### 1st Year - 2nd Semester

Component code	Name	Scientific Area Field	ECTS	Duration	Hours	
Group of Options						
Component code	Name		Scientific Area Field	ECTS	Duration	Hours
PAO10040O	Sustainability: a transdisciplinary approach		Environment and Ecology Sciences	6	Semester	156
PAO14757M	Education for the Environment: from Fundamentals to Action		Environment and Ecology Sciences	6	Semester	156
PAO10046O	Urban Landscape		Landscape Architecture	3	Semester	78
FIS10049O	Light and Colour in Nature		Physics	3	Semester	78
PAO10044O	Nature, Society and Ideology		Environment and Ecology Sciences	6	Semester	156

### Conditions for obtaining the Degree:

\*\*\* TRANSLATE ME: Para aprovação na componente curricular é necessário a aprovação (através de avaliação ou creditação) de 30 ects em optativas. \*\*\*

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**Ecology, Standards and Processes (PAO10041O)**

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**Conceptions of Nature, Environment and Landscape (FIL10042O)**



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### **Habitats: Management and Conservation (PAO100470)**

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### **Introduction to e-learning and colaborative tools (INF100480)**

Introduction to e-learning

Platform Learning Management Systems (LMS)

Advanced features in Moodle

Open Educational Resources (OER)

Tools for the production of educational content

Synchronous and asynchronous communication tools

Web Conferencing Systems

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### **Aesthetics of Landscape and Nature (FIL100430)**

- introduction to the aesthetical theory and experience: painting and landscape in the cinema (Kurosawa) – Phenomenological conceptions of the aesthetical perception and of the work of art (Merleau-Ponty, José Gil)

- Phenomenological reexposition of Kant's aesthetics

- The nature/culture relation and the ethical dimension of Aesthetics (Adorno, Descola, Kac)

- introduction to a philosophy and aesthetics of nature (Merleau-Ponty, Adorno)

- the different landscape theory perspectives and the contemporary debates: Assunto, Roger, Kessler, Berleant, Carlson, Brady, Saito

- Nature and landscape in the visual arts: from the dutch landscape painters to the thematic organization of this domain in the contemporary museum

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### **Sustainability: a transdisciplinary approach (PAO100400)**

1.Introduction to sustainability

Sustainable development and sustainability: a complex issue

Introduction to the thought of complexity from the mechanistic approaches to systemic approaches

Interdisciplinarity and transdisciplinary - the transdisciplinary approach

The paradigm of sustainable development - causes and landmarks

Criticisms of the concept of sustainable development

2.Dimensions of the problem

Environmental degradation, loss of biodiversity and natural ecosystems

Depletion/over-exploitation of resources

Consumerism and life artificialization

3.Territory, landscape and sustainability

Socio-economy - transformations for a sustainable future

Farming, food and waste management

Energy and sustainability - Green Physics

Chemistry and sustainability - Green Chemistry

ICT,Design, Architecture and sustainability

Green technologies

4.Future prospects

Other sustainability's. A new attitude towards the world

Other habits, another daily routine - lifestyle changes



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### **Education for the Environment: from Fundamentals to Action (PAO14757M)**

#### **1. Nature and environment**

Perceptions and concept (s) of Nature and Environment

Relationship of the human species with "Nature"

Nature: from life support to the spiritual dimension. The importance of Nature. Biophilia. The Gaia hypothesis.

Ethics and Nature.

#### **2. Contemporary environmental issues**

The environmental crises

Threats and global changes

The social ecology

#### **3. Mission and strategies for Environmental Education**

Visions: from anthropocene to ecocene ...

Policies and citizenship

Basic rules, European Agenda, Treaties and Agreements.

#### **4. Education for Sustainability (ES) and Environmental Education (EA)**

Common points, divergences and specificities

#### **5. Paths in and for Environmental Education**

Ecofeminism

The delicate empiricism

"The forest schools"

Eco-schools

Others

#### **6. Building projects in environmental education and raising of an ecological person.**

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### **Urban Landscape (PAO10046O)**

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### **Light and Colour in Nature (FIS10049O)**



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### **Nature, Society and Ideology (PAO100440)**

Knowledge, power and action: beliefs and convictions, ways of knowing

Ideologies, as ways of articulating nature and society

I. Nature, knowledge and power in Western History, from archaic times to the Middle Ages. Sacred places, cities and bordering spaces. Wars, commerce, pilgrimages

From the limited world to the infinite universe. Urbanization of social life, changes in the agricultural landscape, industrialization and transports. The world plantation system

The experience of Nature at its multiple levels - from comfort to transcendence, as a reaction to the modern world. Attempts at urban reform, suburbanization and the diffuse urban

Stages of awareness of the ecological crisis. Ecological activism and ethics of life, animal, environmental

II. Nature, development and contemporary social dynamics

The New International Economic Order

The increase in international asymmetries. Global development strategies

The ecological alarm signs

From resistance to developmentalism to denial