



MASTER BIODIVERSITY, ECOLOGY & EVOLUTION

MASTER 1

Program

SOCIETIES & BIODIVERSITY



SOMMAIRE

SeB1-AE1- Environmental Anthropology	1
SeB1-ECOL1- Ecology and biodiversity	2
SeB1-ECOL2- “Involved” Ecology	3
SeB1-ECOPO- Ecology and politics.....	4
SeB1-AE2 - Environmental anthropology 2.....	5
SeB1-ENGAGE – Biodiversity and engagement	6
SeB1-TFA- Basic texts	7
SeB1-MSD- Scientific Methods	8
SeB1-TRANS Transversalities	9
SeB1-STAGE Internship	10
SeB1-MEMOIRE- Bibliographic research	11
D3P - Develop my professional and personal project.....	12

DEGREE TITLE: Biodiversity, Ecology and Evolution

Program: Societies and biodiversity

Specialization: SeB

Title of the module: SeB1-AE1- Environmental Anthropology

Coordinator: Hélène Artaud

Organization

Semeste	ECTS	CM (h)	TD/TP (h)	Number of Weeks	Hours per week	Maximum partici-pants
1	3	30		2	15	40

Objectives

This course presents an overview of the issues and concepts involved in the social sciences around the environment. It consists of two 6-hour lectures that examine contemporary transformations at work in anthropological questions associated with nature and non-humans, and several conferences that provide an ethnographic illustration of the various theoretical elements discussed.

Key words

Environment - nature-culture - non-human - anthropocene

Target skills

Identify the major issues associated with the environment in the field of social sciences. To know a significant sample of reference texts on the subject and to be able to define the main concepts which federate the reflection in human sciences around this topic.

Prerequisites

None

Evaluation procedure

☒ Written ☐ Practical ☐ Continuous Assessment ☐ Oral

Contact

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DEGREE TITLE: Biodiversity, Ecology and Evolution

Program: Societies and biodiversity

Specialization: SeB

Title of the module: SeB1-ECOL1- Ecology and biodiversity

Coordinator: Emmanuelle Porcher

Organization

Semester	ECTS	CM (h)	TD/TP (h)	Number of Weeks	Hours per week	Maximum partici-pants
1	3	30	0	2	15	40

Objectives

This course is an introduction to scientific ecology in the modern sense, as well as to the concept of biodiversity as perceived by scientific ecology. The course tackles the levels of organization in ecology: populations, species, communities and ecosystems, ecological networks, landscape, biosphere; the models of functioning of populations and ecosystems; the relationships between ecological and evolutionary mechanisms, with the notion of eco-evolution; some main concepts formalizing the impacts of humans on nature: ecological niche and footprint, biological diversity and resilience of ecosystems. These notions are also related to that of essential biodiversity variable (EBV).

Key words

Populations – Communities – Ecosystems – Evolution – Flows of matter and energy

Target skills

Ability to understand the functioning of ecological systems

Prerequisites

None

Evaluation procedure

☒ Written ☐ Practical ☐ Continuous Assessment ☐ Oral

Contact

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DEGREE TITLE: Biodiversity, Ecology and Evolution

Program: Societies and biodiversity

Specialization: SeB

Title of the module: SeB1-ECOL2- "Involved" Ecology

Coordinator: Romain Julliard

Organization

Semeste	ECTS	CM (h)	TD/TP (h)	Number of Weeks	Hours per week	Maximum partici-pants
1	3	30	0	2	15	40

Objectives (700 characters max)

Ecology is a discipline strongly solicited to accompany the transition of the same name. How it responds, as a scientific discipline, is what we will explore in this course. We will see how theoretical concepts are remobilized in this involved context, how it applies to different major types of socio-ecosystems, how it considers combining different types of knowledge when science cannot do everything by itself.

Key words

Conservation biology, socio-ecosystems, ecological services

Target skills

Understanding the transition from a basic science to an involved science

Prerequisites

None

Evaluation procedure

☒ Written ☐ Practical ☐ Continuous Assessment ☐ Oral

Contact :

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DEGREE TITLE: Biodiversity, Ecology and Evolution

Program: Societies and biodiversity

Specialization: SeB

Title of the module: SeB1-ECOPO- Ecology and politics

Coordinator: Luc Semal

Organization

Semeste	ECTS	CM (h)	TD/TP (h)	Number of Weeks	Hours per week	Maximum partici-pants
1	3	24	0	2	12	

Objectives

This teaching aims at giving to students some basic skills and knowledge to observe and analyse the links between ecology and politics. It will consider both the very early beginning of green politics (1945-1972), and the contradictory dynamics that have been existing within them for the past five decades (1972-2021). The teaching will mainly be rooted in political science, with some insights from history of ideas, green movements, green policies and green politics. Two sessions will be devoted to global negotiations and their consequences for local stakeholders.

Key words

Political science. History of ideas. Green movements. Green politics.

Target skills

Analysing stakeholders, political movements, political framing, green discourses in a historical perspective (cultural and political contextualisation), from global to local.

Prerequisites

Interest for green politics and green policies; general awareness of scientific and political news about green issues.

Evaluation procedure

☒ Written ☐ Practical ☐ Continuous Assessment ☐ Oral

Contact

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DEGREE TITLE: Biodiversity, Ecology and Evolution

Program: Societies and biodiversity

Specialization: SeB

Title of the module: SeB1-AE2 - Environmental anthropology 2

Coordinator: Julien Blanc

Organization

Semester	ECTS	CM (h)	TD/TP (h)	Number of Weeks	Hours per week	Maximum partici-pants
2	3		40	2	20	30

Objectives (700 characters max)

This course is a continuation of AE1, continuing the presentation of the different ways in which anthropology deals with the notion of environment and with environmental issues. It therefore completes the comparison of epistemologies, concepts and practices associated with different anthropological currents (from ethnoecology to ontogenetic approaches) and situates their emergence and development in relation to societal issues as they are problematised (environmental crisis, crisis of modernity, decolonisation of knowledge, etc.). The teaching unit combines work on texts and interventions by researchers.

Key words (5 max)

Anthropology, ethnoecology, science and technology studies, relational approaches, science&society.

Target skills (300 characters max)

Address the relationship between societies and the environment from an anthropological perspective.

Prerequisites (150 characters max)

Basics in anthropology ; AE1

Evaluation procedure

☒ Written ☐ Practical ☐ Continuous Assessment ☒ X Oral

Contact

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DEGREE TITLE: Biodiversity, Ecology and Evolution

Program: Societies and biodiversity

Specialization: SeB

Title of the module: **SeB1-ENGA** – Biodiversity and engagement

Coordinator: Anne-Caroline Prévot

Organization

Semeste	ECTS	CM (h)	TD/TP (h)	Number of Weeks	Hours per week	Maximum partici-pants
2	3	0	40	2	20	30

Objectives

To provide a basic understanding of the principles of individual and collective commitment. The approaches used will come mainly from social psychology and conservation psychology

Week 1 : knowledge acquisition through reversed pedagogy,

Week 2 group working on false commands.

Key words

Psychology - values - norms - science – behaviors

Target skills

Understand the drivers of engagement and strengthen critical thinking

Prerequisites

None

Evaluation procedure

☒ Written ☐ Practical ☐ Continuous Assessment ☒ Oral

Contact

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DEGREE TITLE: Biodiversity, Ecology and Evolution**Program:** Societies and Biodiversity**Specialization:** SeB**Title of the module:** SeB1-TFA- Basic texts**Coordinator:** Hélène Artaud**Organization**

Semeste	ECTS	CM (h)	TD/TP (h)	Number of Weeks	Hours per week	Maximum partici-pants
S1/S2	3	0	25	4		30

Objectives

To deepen the theoretical bases of the different courses offered in the M1: anthropology, ethnology, ecology, conservation biology, conservation psychology, management sciences, political sciences.

Key words

Critical analysis of texts – problematization – teamwork

Target skills

Know how to analyze and cross-reference scientific texts. To compare theoretical and practical approaches

Prerequisites

read English

Evaluation procedure

☐ Written ☐ Practical ☐ Continuous Assessment ☒ Oral

Contact

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DEGREE TITLE: Biodiversity, Ecology and Evolution**Program:** Societies and biodiversity**Specialization:** SeB**Title of the module:** SeB1-MS- Scientific Methods**Coordinator(s):** Nicolas Césard, Aurélie Coulon**Organization**

Semestre	ECTS	CM (h)	TD/TP (h)	Number of Weeks	Hours per week	Maximum participants
1	6	0	52	3	20	30

Objectives

Introductory course on the different methods of data collection in social sciences (observation, interviews, surveys, freelists) and natural sciences (observation, sampling), as well as their analyses. This course emphasizes the complementarity of approaches - inductive and deductive, qualitative and quantitative - and presents a range of tools adapted to the subjects/questions that students may be confronted with in multi- or interdisciplinary research. It offers workshops and activities with researchers on issues of urban biodiversity. Students will initiate a research project on an issue identified in class.

Key words

Problem setting – survey methods – sampling – field – interdisciplinarity

Target skills

Acquainting oneself to a range of survey/sampling tools, knowing how to identify a research issue in social sciences and natural sciences and how to analyze it, working in group.

Prerequisites

None

Evaluation procedure

☒ Written ☒ Practical ☐ Continuous Assessment ☒ Oral

Contacts

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DEGREE TITLE: Biodiversity, Ecology and Evolution**Program:** Societies and biodiversity**Specialization:** SeB**Title of the module :** **SeB1-TRANS** Transversalities**Coordinators :** Nicolas Césard, Julien Blanc, Richard Dumez, Lucile Garçon**Organization**

Semestre	ECTS	CM (h)	TD/TP (h)	Number of Weeks	Hours per week	Maximum partici-pants
1 & 2	3	0	30	0	20	1,5

Objectives

In different situations such as job interviews, public debates or requests for expertise, the students we train can be consulted, questioned or even challenged to take a position on current issues related to environmental questions. How does the Master's course enable students to take a different view and enrich the debate on these issues? This course consists of a series of exercises that invite students to mobilise the knowledge acquired in the various classes taught in the M1 SeB, and to explicit the skills they acquire during the year. All of this is done by putting into perspective current events linking science and society around the key issues of the SeB course.

Key words

Reflexivity – professionalization – interdisciplinarity

Target skills

To become aware of one's knowledge, to learn to explain it, to have a reflexive vision of it, to value it in the field of environmental expertise.

Prerequisites

None

Evaluation procedure

Presentations and group productions

☒ Written ☐ Practicals ☒ Continuous Assessment ☒ Oral

DEGREE TITLE: Biodiversity, Ecology and Evolution**Program:** Societies and biodiversity**Specialization:** SeB**Title of the module :** SeB1-STAGE Internship**Coordinators :** Léo Mariani, Anne-Caroline Prévot**Organization**

Semeste	ECTS	CM (h)	TD/TP (h)	Number of Weeks	Hours per week	Maximum partici-pants
2	12					

Objectives

To apply knowledge and skills acquired in the M1 during a professional internship. Each student has to look for an internship, in a research laboratory or in a public, private or associative structure. The subject of the internship will be validated by the teachers in charge and will lead to the writing of a problematized thesis, defended in June

Key words

Research - scientific approach - problematization – reflexivity

Target skills

Canvassing of host structures, teamwork, writing and oral presentation

Developing a professional project, increasing in autonomy, developing reflexivity and perspective

Prerequisites

None

Evaluation procedure

Presentations and group productions

☒ Written ☐ Practicals ☐ Continuous Assessment ☒ Oral

Contact

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DEGREE TITLE: Biodiversity, Ecology and Evolution**Program:** Societies and biodiversity**Specialization:** SeB**Title of the module:** SeB1-MEMOIRE- Bibliographic research**Coordinator:** Hélène Artaud**Organization**

Semester	ECTS	CM (h)	TD/TP (h)	Number of Weeks	Hours per week	Maximum partici-pants
2	12					

Objectives

To train students in bibliographic research, analysis and the production of a bibliographic synthesis. The themes on which the students carry out their work are proposed by researchers and teacher-researchers with the principle that these themes belong to ongoing or planned research and that they allow the students to deepen a specific field of knowledge. The exercise also allows the student to get in touch with the world of research.

Key words

Problematize - synthesize - read critically

Target skills

Learn to problematize. Structure, organize and defend a written statement; mobilize the bibliography. Master ICT tools for documentary research and implement a scientific watch. Ability to synthesize and format a research document (bibliographic standards, plan, etc.).

Prerequisites

None

Evaluation procedure

☒ Written ☐ Practical ☐ Continuous Assessment ☒ Oral

Contact

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DEGREE TITLE: Biodiversity, Ecology and Evolution**Program:** all M1**Specialization:****Title of the module:** D3P - Develop my professional and personal project**Coordinator :** Anne-Laure Guieysse-Peugeot**Organization**

Semeste	ECTS	CM (h)	TD/TP (h)	Number of Weeks	Hours per week	Maximum participants
1,2	3	21h (distance learning)	3x3h	20		8-10 per group

Objectives

The objective of this module is to identify one's professional project in line with one's personal talents and desires. It will allow participants to recognize their skills and determine the axes and steps of development to concretize and succeed in their professional project with the creation of an e-portfolio and the realization of job interviews. Essentially distance learning, composed of 4 modules: Knowing myself - Planning myself - Launching myself - Project and ePortfolio

Key words

Professional and personal project – values, talents, skills – professional network – job interviews - ePortfolio

Target skills

Present oneself and one's project in a way that has an impact - Build professional and personal projects in line with one's personality and the professional world - Define a strategy to develop the missing skills - Develop one's professional network

Prerequisites

None

Evaluation procedure

☐ Written ☐ Practical ☒ Continuous Assessment ☒ Oral (portfolio presentation)

Contact

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