



**MASTER BIODIVERSITY, ECOLOGY AND EVOLUTION**

# **MASTER 1 & 2**

Program

**MUSEOLOGY OF NATURALAND  
HUMAN SCIENCES**



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**DEGREE TITLE: Biodiversity, Ecology, and Evolution**

**PROGRAM:**

**SPECIALIZATION:** Museology, natural and human sciences

**Title of the module:** Museums History

**Coordinator(s):**

**Organization of the module:**

Semester	ECTS	CM (h)	TD (h)	TP (h)	Number of Weeks	Hours per week	Maximum participants
1	3	30				3	15

**Objectives of the module:**

This syllabus introduces the general history of science museums : from Cabinets to museums that are libraries of objects, to contemporary scientific museums. This course involves several participants (researchers or teacher-researchers who have developed a specific analysis of sciences museums)

**Key words:**

**Target skills:**

**Pre-requisites:**

**Evaluation:**

Evaluation procedure and scoring:  Written,  Practical,  Continuous Assessment,  Oral

**Contact :**

**DEGREE TITLE: Biodiversity, Ecology, and Evolution**

**PROGRAM:** Museology, natural and human sciences

**SPECIALIZATION:**

**Title of the module:** Science communication in museums

**Coordinator(s):** Andrée Bergeron

**Organization of the module:**

Semester	ECTS	CM (h)	TD (h)	TP (h)	Number of Weeks	Hours per week	Maximum participants
1	3	30			10	3	15

**Objectives of the module:**

Theoretical and practical approaches of science communication in museums (especially science museums and exhibitions and science and technology heritage). This module combines theoretical approaches, introduction to the international literature and in situ visits.

**Key words:**

Display of science, science communication, popularization of science, circulation of knowledges, display of science and technology heritage

**Target skills:**

Understand the cognitive, cultural, epistemological, political and social issues of museum mediation.  
Mobilize theoretical elements to design and/or analyze a scientific exhibition.

**Pre-requisites:**

None.

**Evaluation:**

Written  Practical  Continuous Assessment  Oral

**Contact :**

Andrée Bergeron : andree.bergeron@mnhn.fr

**DEGREE TITLE: Biodiversity, Ecology, and Evolution****PROGRAM:** Museology of Natural and Human Sciences**SPECIALIZATION:****Title of the module:** MSNH 5- Colorama: Multifunctional approach to color for museography**Coordinator(s):** Anne Michelin / Christine Andraud**Organization of the module:**

Semester	ECTS	CM (h)	TD/TP (h)	Number of Weeks	Hours perweek	Maximum participants
1	3	12	15	1	30	20

**Objectives of the module:**

This module examines the notion of color from different theoretical and practical aspects. The courses will highlight the fundamentally interdisciplinary nature of the museographic problems of color, from the basic sciences to the humanities:

- The theoretical part of the course will be structured around the four essential notions that give rise to color: lighting, light-matter interaction, vision and interpretation.
- Practical work will start from the difficulties of an objective measurement of color and the subjectivity of this notion, in order to develop techniques adapted to the service of museography. The module will be based on a pedagogy based on concrete situations within the museum's collections and the active participation of students.

**Key words:**

Color, light, museography, conservation, presentation

**Target skills:**

Acquire a conceptual basis for dialogue with color specialists in any field, within the framework of a museographic project or expertise.

- Knowing the problems related to color
- Knowing how to take into account the subjectivity of color
- Highlighting objects with color without damaging them
- Knowing the basics of color preservation

**Pre-requisites:**

No prerequisites, especially scientifically, are expected from students. However, they should be prepared to address, including in their scientific reality, some of the theoretical aspects developed in this course.

**Evaluation:**

Evaluation procedure and scoring:  Written,  Practical,  Continuous Assessment,  Oral

**Contact(s):**

Anne Michelin : [anne.michelin@mnhn.fr](mailto:anne.michelin@mnhn.fr) / Christine Andraud : [christine.andraud@mnhn.fr](mailto:christine.andraud@mnhn.fr)

**DEGREE TITLE: Biodiversity, Ecology, and Evolution**

**PROGRAM: Museology of Natural and Human Sciences**

**SPECIALIZATION:**

**Title of the module:** In front of the public

**Coordinator(s):** Sophie Eve Valentin

**Organization of the module:**

Semester	ECTS	CM (h)	TD (h)	TP (h)	Number of Weeks	Hours per week	Maximum participants
1	3	3		42			15

**Objectives of the module:**

This teaching unit is intended for future museum managers, mediators and exhibition developers. It aims to immerse students in the reality of the museum and the professions of the Hospitality Department with the operational teams in public view. To make them understand the diversity and complexity of visitors' expectations. Under the direction of the Head of Public Reception, students are placed in the visitor welcome position during the All Saints' School Holidays (maximum peak period): orientation assistance, discovery of new and unfamiliar places, queue management, assistance in preparing ticket purchases, information on current exhibitions, awareness of the heritage aspect of the collections on offer (including live animals and plants), gathering visitors' opinions....

**Key words:**

Public, expectations

**Target skills:**

Understanding of visitors expectations

**Pre-requisites:**

None

**Evaluation:**

Date of the evaluation: november

Evaluation procedure and scoring:  Written,  Practical,  Continuous Assessment,  Oral

**Contact(s):**

Sophie Eve Valentin : sophie.eve-valentin@mnhn.fr

**DEGREE TITLE: Biodiversity, Ecology, and Evolution****PROGRAM:** Museology of Natural and Human Sciences**SPECIALIZATION:****Title of the module :** MSNH 10

Epistemology and Museology of Sciences

**Coordinator(s):**

Fabienne Galangau Quérat &amp; Donato Bergandi

**Organization of the module:**

Semester	ECTS	CM (h)	TD (h)	TP (h)	Number of Weeks	Hours per week	Maximum participants
1	3	20	10			3	15

**Objectives of the module:**

The course focuses on the exhibition whose specificities make it unique compared to other media. It covers the history of the discipline, the question of representation, information and communication, and the impact of information and communication technologies. In fact, any representation of nature reflects a particular attitude towards the world. This abstraction is determined by a partial, particular, idealized, even symbolic vision of the world that always refers to a particular museological context (sociocultural, historical, geographical, etc.) and contributes to a more global construction of the world and of the connection with nature.

**Key words:**

Museology, epistemology sciences representation media (tion) information nature communication issues

**Target skills:**

Knowledge of the discipline and critical approach to museums

**Pre-requisites:**

None

**Evaluation:**Evaluation procedure and scoring:  Written,  Practical,  Continuous Assessment,  Oral**Contact(s):**

fabienne.galangau-querat@mnhn.fr

**DEGREE TITLE: Biodiversity, Ecology, and Evolution**

**PROGRAM: Museology of Natural and Human Sciences**

**SPECIALIZATION:**

**Title of the module:** Living collections from the perspective of the humanities and social sciences

**Coordinator(s):** Mélanie Roustan, Manuel Valentin, Mathilde Gallay-Keller, Serge Reubi, Dominique Juhé-Beaulaton

**Organization of the module:**

Semester	ECTS	CM (h)	TD (h)	TP (h)	Number of Weeks	Hours per week	Maximum participants
1	3	18			12	various	50

**Objectives of the module:**

Invite an international panel of researchers in the humanities and social sciences to present their work and discuss it at the seminar. "Living collections" refer to inventoried collections of living specimens preserved in museums or scientific institutes. They include botanical, zoological, or microbiological collections. Through an anthropological, historical or philosophical approach, the seminar will explore some questions. How living collections were and are defined today? By whom and for whom? What are their reasons for being and how do they relate to scientific paradigms? What values underlie them? What specific features does their living character bring in terms of collection, conservation, research and exhibition practices?

**Key words:**

"Living collections" - Museology – History of sciences – Ethics

**Target skills:**

Knowledge: discovering issues related to "living collections" from the perspective of the humanities and social sciences

Know-how: understanding scientific texts, understanding current research work, developing a critical mind in relation to sensitive issues, designing research problems

**Pre-requisites:**

None

**Evaluation:**

Date of the evaluation:

Evaluation procedure and scoring:  Written,  Practical,  Continuous Assessment,  Oral

**Contact:**

melanie.roustan@mnhn.fr

**DEGREE TITLE: Biodiversity, Ecology, and Evolution**

**PROGRAM: Museology of Natural and Human Sciences**

**SPECIALIZATION:**

**Title of the module:** Visitors' studies: methodological questions

**Coordinator(s):** Mélanie Roustan

**Organization of the module:**

Semester	ECTS	CM (h)	TD (h)	TP (h)	Number of Weeks	Hours per week	Maximum participants
1	3	10	20		12	various	18

**Objectives of the module:**

Acquire the methodological bases of qualitative and quantitative surveys in the field of museum visitors' studies:

- Know survey techniques, know how to mobilize and use them
- Know how to design and conduct a visitors' study (carry out a simple study, write specifications and ensure the follow-up of a complex study)
- Take a critical look at the studies conducted with museum visitors, be aware of the methodological constraints that ensure the reliability of the results

**Key words:**

Museology - Methodology – Visitors' studies - Survey techniques – Qualitative research – Quantitative studies

**Target skills:**

Know-how: survey methods

Reflexivity and critical thinking: about the use of these methods in the study of audiences

**Pre-requisites:**

None

**Evaluation:**

Date of the evaluation:

Evaluation procedure and scoring:  Written,  Practical,  Continuous Assessment,  Oral

**Contact(s):**

[melanie.roustan@mnhn.fr](mailto:melanie.roustan@mnhn.fr)

**DEGREE TITLE: Biodiversity, Ecology, and Evolution**

**PROGRAM: Museology of Natural and Human Sciences**

**SPECIALIZATION:**

**Title of the module:** Visitors' studies: theoretical and strategic questions

**Coordinator(s):** Mélanie Roustan

**Organization of the module:**

Semester	ECTS	CM (h)	TD (h)	TP (h)	Number of Weeks	Hours per week	Maximum participants
1	3	10	20		12	various	18

**Objectives of the module:**

To provide an overview of audience and visitors' studies at the museum, as a professional field and as a scientific field. The aim will be to understand the institutional and academic origins of the surveys conducted among museum visitors, to take an interest in the diversity of their scientific orientations, but also in the strategic challenges they represent in terms of institutional policies.

**Key words:**

Museology – Visitors' studies – Audience studies – Evaluation – Reception – Institutional policies

**Target skills:**

Knowledge: genealogy and theoretical issues of audience and visitors' studies, institutional and strategic uses  
Know-how: critical presentation of scientific texts, analysis and synthesis

**Pre-requisites:**

None

**Evaluation:**

Date of the evaluation:

Evaluation procedure and scoring:  Written,  Practical,  Continuous Assessment,  Oral

**Contact**

melanie.roustan@mnhn.fr \_\_\_\_\_

**DEGREE TITLE: Biodiversity, Ecology, and Evolution****PROGRAM:** Muséologie : Science, Cultures et Sociétés (MSCS) M2**SPECIALIZATION:** Optional course**Title of the module:** History of collections and history of collecting: actors, practices and institutions**Coordinator(s):** Serge Reubi (CAK) and Amandine Péquignot (UMR208 Paloc)**Organization of the module:**

Semester	ECTS	CM (h)	TD (h)	TP (h)	Number of Weeks	Hours per week	Maximum participants
2	3	30			1	30	15

**Objectives of the module:**

Focusing on collecting practices of the 19th and 20th centuries, this module seeks to make students understand the circulation of artefacts, knowledges, and actors, that are necessary to the constitution of a collection, starting with the preparation collecting activities within museal institutions, its realization in the field and ending with the arrival of artefacts in the museum. The students will be confronted, through the modalities and the contingencies of the collecting processes, to the fact that collections are never a given thing, but the product of a wide range of activities that include various actors, practices, and institutions.

The module has 5 goals :

- Mapping and understanding of the (scientific, technical, political, cultural) stakes of collecting and collections.
- Identify the diversity of acquisition modalities and collection institution.
- Contextualize these processes within museological stakes.
- Identify contemporary effects of yesterday's collecting practices.
- Establish a continuity between history and epistemology of collections/collecting and provenance research.

**Key words:**

Collections, fieldwork, colonial sciences, restitutions, epistemology of collections

**Target skills:**

Reflexivity, critical sense, understanding the contingency of the various modalities of collecting

**Pre-requisites:**

None. The course will only take place with a minimum of 5 students.

**Evaluation:**

Date of the evaluation:

Evaluation procedure and scoring:  Written,  Practical,  Continuous Assessment,  Oral

**Contact**

Serge Reubi ([serge.reubi@mnhn.fr](mailto:serge.reubi@mnhn.fr))

Amandine Péquignot ([apeq@mnhn.fr](mailto:apeq@mnhn.fr))

**DEGREE TITLE: Biodiversity, Ecology, and Evolution****PROGRAM:** Museology of Natural and Human Sciences**SPECIALIZATION:****Title of the module:** Stating of heritage in the souths**Coordinator(s):** Yves Girault, Pascale de Robert**Organization of the module:**

Semester	ECTS	CM (h)	TD (h)	TP (h)	Number of Weeks	Hours per week	Maximum participants
2	3	30			1	30	20

**Objectives of the module:**

This course, which is similar to a seminar, provides students with tools for an analysis of the processes of building (construction) and staging heritage from a series of unique (singular) experiences in different countries outside Europe. At the state or village level, within museum institutions or small communities, the modalities, strategies and means implemented to build museums, set up exhibitions or document collections are discussed. We will have interventions from several specialists working in Benin, Chile, Cameroon, the Marquesas Islands, New Caledonia, Ecuador, Brazil and Colombia.

**Key words:**

Architecture, collections, exhibition, mediation, museum, participatory museology, digitization, heritage, local heritage, heritage, local populations, professionalization.

**Target skills:**

Make the link between theoretical aims and professional practices from different countries.  
Take into account the great diversity of museological approaches.  
Evaluate the interests and difficulties of multidisciplinary projects  
Critical approaches to museum geopolitics.

**Pre-requisites:**

English reading required, Spanish desirable

**Evaluation:**

Analysis of a session and oral participation in the courses (Note out of 20)  
Evaluation procedure and scoring:  Written,  Practical,  Continuous Assessment,  Oral

**Contact(s):**

Yves Girault, Professeur au Museum national d'Histoire naturelle, [yves.girault@mnhn.fr](mailto:yves.girault@mnhn.fr)  
Pascale de Robert, Chargée de recherche IRD, [pascale.derobert@ird.fr](mailto:pascale.derobert@ird.fr)

**DEGREE TITLE: Biodiversity, Ecology, and Evolution****PROGRAM:** Museology of Natural and Human Sciences**Title of the module:** Introduction to heritage approaches I: concepts, labels, staging**Coordinator:** Laure Empeiraire**Organization of the module**

Semester	ECTS	CM (h)	TD (h)	TP (h)	Number of Weeks	Hours per week	Maximum participants
2	3	21	6	3	1	30	20

**Objectives of the module**

The notion of heritage is approached at the crossroads of two perspectives, that of institutional heritage (UNESCO, cultural policies, forms of labelling, etc.) and that of local populations. In the latter case, how is the notion applied locally (meanings, social practices and management techniques, etc.) and what are the impacts of institutional heritage at the local level? After a general introduction, the heritage is explored on the basis of several major themes: biodiversity, territory, food, material culture. Theoretical approaches are put into practice during field work on a heritage object.

**Key words**

Heritage, biodiversity, institutions, territories, food, governance

**Target skills**

A good understanding of the stakes involved in the concepts of heritage and patrimonialization at different scales, from local populations to international governance.

**Pre-requisites**

A good understanding of English for bibliography in this language.

**Evaluation**Evaluation procedure and scoring:  Written,  Practical,  Continuous Assessment,  Oral**Contact**Laure Empeiraire – [laure.empeiraire@ird.fr](mailto:laure.empeiraire@ird.fr)

**DEGREE TITLE: Biodiversity, Ecology, and Evolution****PROGRAM:****SPECIALIZATION:**

**Title of the module:** Introduction to Heritage approaches II: regional approaches, political dimensions, instruments

**Coordinator(s):** Dominique GUILLAUD

**Organization of the module:**

Semester	ECTS	CM (h)	TD (h)	TP (h)	Number of Weeks	Hours per week	Maximum participants
2	3	21	6	3	1	30	20

**Objectives of the module:**

The M2 module, designed as an extension of the M1, opens with a complexification of the notions of heritage and heritage-making by exploring their political, historical and symbolic, and also legal dimensions (notably through the CBD), and by presenting different types of heritage visions on different continents. Practical work on papers concerning different types of heritage and a field trip allowing students to test a heritage approach in the field complete the training.

**Key words:**

Heritage studies, heritage, Africa, Oceania, Asia, South America, CBD

**Target skills:**

A good knowledge of the concepts used in heritage development; an outline of the approach to heritage in different countries of the world and by different institutional, scientific or local actors.

**Pre-requisites:**

A good understanding of English (courses in this language)

**Evaluation:**

Date of the evaluation: between May and September 2020

Evaluation procedure and scoring:  Written,  Practical,  Continuous Assessment,  Oral

**Contact :**

dominique.guillaud@ird.fr

**DEGREE TITLE: Biodiversity, Ecology, and Evolution****PROGRAM:****SPECIALIZATION:**

**Title of the module:** MSNH 6- SEP13 Natural History Collections, Customs and Uses

**Coordinator(s):** Amandine Péquignot et Adeline Soulier

**Organization of the module:**

Semester	ECTS	CM (h)	TD (h)	TP (h)	Number of Weeks	Hours per week	Maximum participants
2	3	21	9	0	1	30	20

**Objectives of the module:**

Collections are the cornerstone of the MNHN's activities: a "scientific library" of life for researchers, a support to promote and disseminate scientific culture to a wide audience and to train young researchers. Despite these multiple and unavoidable implications, natural history collections (NHC) are a subject that is rarely addressed in the university curriculum, but that the MNHN intends to teach. This cours will provide a wide and new look at NHC by addressing their specificities, their roles in the different scientific and museological topics of the Museum, and the problems they generate so that students who are -or will be future- collectors, users or curators of collections... can obtain real and global training.

**Key words:**

Collection ; Scientific material ; Management ; History ; Law

**Target skills:**

Knowledge of the diversity of natural history collections and collections databases; Raise awareness of the importance of collections for scientific research; Understand the historical and law of the scientific heritage within museum institutions; Acquire notions of management and preventive conservation; Develop a general and critical reflection on the scientific heritage.

**Pre-requisites:**

None

**Evaluation:**

Date of the evaluation: Final Exam – Last day

Evaluation procedure and scoring:  Written,  Practical,  Continuous Assessment,  Oral

**Contact(s):**

Amandine Péquignot ([apeq@mnhn.fr](mailto:apeq@mnhn.fr)) et Adeline Soulier ([soulier@mnhn.fr](mailto:soulier@mnhn.fr))

**DEGREE TITLE: Biodiversity, Ecology, and Evolution****PROGRAM:** Museology of Natural and Human Sciences**Title of the module:** MSNH 30 - Introduction to physical and chemical conservation sciences**Coordinators:** Véronique Rouchon (MNHN professor) and Sophie Cersoy (MNHN associate professor) from the CRC**Organization of the module:**

Semester	ECTS	CM (h)	TD (h)	TP (h)	Number of Weeks	Hours per week	Maximum participants
2	3	21	3	6	6	3/6	20

**Objectives of the module:**

- To approach the conservation of museum collections with a particular focus on the physico-chemical aspects related to it.
- To become aware of the different types of values of a specimen, especially scientific, in order to understand why to conserve
- Encourage critical views on preventive and curative conservation strategies and risk assessment
- Know the most common physico-chemical alterations encountered in natural history collections, their mechanisms, influencing factors, and how to prevent them, especially through environmental control.
- Know how to evaluate the material durability of specimens (impact of materials used in conservation-restoration and principle of artificial aging experiments)

**Key words:**

Preventive conservation, values, restoration, museum environment control, conservation research

**Target skills:**

Be able to look critically at conservation-restoration strategies and be able to discuss with scientific experts in the field.

**Prerequisites:**

No prerequisites (be open and curious!)

**Evaluation:**

Date of the evaluation: during the TU

Evaluation procedure and scoring:  Written,  Practical,  Continuous Assessment,  Oral

The evaluation will be done during the teaching unit (oral for the case studies concerning the values, practical work at the Center for Research on Preservation (CRC) and regular continuous assessment at the beginning of the courses in the form of interactive or paper questionnaires, according to the evolution of the health crisis).

**Contacts:**Véronique Rouchon : [veronique.rouchon@mnhn.fr](mailto:veronique.rouchon@mnhn.fr)Sophie Cersoy : [sophie.cersoy@mnhn.fr](mailto:sophie.cersoy@mnhn.fr)

**DEGREE TITLE: Biodiversity, Ecology, and Evolution****PROGRAM:****SPECIALIZATION:**

**Title of the module:** MSNH 7 - Exhibiting natural and human sciences

**Coordinator(s):** Fabienne Galangau Quérat

**Organization of the module:**

Semester	ECTS	CM (h)	TD (h)	TP (h)	Number of Weeks	Hours per week	Maximum participants
	3						

**Objectives of the module:**

This teaching is based on an approach to the exhibition of science as a communication media, and is structured with a series of practical exercises around the different stages of the exhibition process. Based on a theoretical and practical approach, this course aims to show and analyse the mechanisms of the exhibition since its conception, to understand the role of the different actors and the decision-making processes that take place there. It is also intended to give students the methodological tools necessary for the design of a scientific and heritage exhibition. The courses are enriched by the interventions of the Museum's professionals. It involves both exhibition professionals at the Museum (design, animation, disabilities, etc.) and also relies on visits and analysis of exhibitions.

**Key words:**

Exhibition. Design. Implementation. Heritage. Science. The documents preparatory to the exhibition. The writing. Space and museographic supports. Actors and professionals. Taking into account the public. The institutional framework.

**Target skills:**

Detailed understanding of the exhibition media. Mastering the tools used to design an exhibition.

**Pre-requisites:****Evaluation:**

Evaluation procedure and scoring:  Written,  Practical,  Continuous Assessment,  Oral

**Contact(s):**

fabienne.galangau-querat@mnhn.fr

**DEGREE TITLE: Biodiversity, Ecology, and Evolution**

**PROGRAM: Museology of Natural and Human Sciences**

**SPECIALIZATION:**

**Title of the module:** MSNH 22- Collections management

**Coordinator(s):** Amandine Péquignot

**Organization of the module:**

Semester	ECTS	CM (h)	TD (h)	TP (h)	Number of Weeks	Hours per week	Maximum participants
3	3	21	3	6	1	30	20

**Objectives of the module:**

Collections management covers the practical, technical, ethical and legal methods that make it possible to organize, study and preserve the objects stored in museums. It helps to ensure their integrity and durability, while facilitating their use, and ensuring the preservation of data.

This module aims at the acquisition of the principles and the knowledge concerning the collection management by tackling on one hand the legislation (Code du Patrimoine), collection (its documentation, inventory and proofing), packing and packing material, and in the other to set up a museum storage (througha TP).

**Key words:**

Collection; Legislation; Labeling; Storage; Packing

**Target skills:**

Knowledge and practice of conservation-restoration principles

**Pre-requisites:**

None

**Evaluation:**

Date of the evaluation:

Evaluation procedure and scoring:  Written,  Practical,  Continuous Assessment,  Oral

**Contact(s):**

Amandine Péquignot ([apeq@mnhn.fr](mailto:apeq@mnhn.fr))

**DEGREE TITLE: Biodiversity, Ecology, and Evolution**

**PROGRAM:** Museology, natural and human sciences ; UE optional

**SPECIALIZATION:** MSNH 3/ QPB 20 - UE optional

**Title of the module:** Managing archaeological collections. From the field to the museum

**Coordinator(s):**

Jacqueline.leopold@mnhn.fr, lecturer at the MNHN

**Organization of the module:**

Semester	ECTS	CM (h)	TD (h)	TP (h)	Number of Weeks	Hours per week	Maximum participants
3	3	18	12	/	1	30	30

**Objectives of the module:**

The objectives of this course is to present the different steps between the excavation of the artefacts until the exhibition in a museum. The course will equally adress techniques in archaeological heritage management and conservation.

**Key words:**

Archeological heritage and museum legislation ; acquisition policies and practices, legal and ethical dimensions of museum collecting, inventory control and data management, labelling, storage and conservation, archaeological displays, museum education

**Target skills:**

Professional training for persons who wish to access museum profession and in particular those concerning archeological heritage.

**Pre-requisites:**

None

**Evaluation:**

Date of the evaluation:

Evaluation procedure and scoring:  Written  Practical  Continuous Assessment  Oral

**Contact :**

jacqueline.leopold@mnhn.fr

**DEGREE TITLE: Biodiversity, Ecology, and Evolution**

**PROGRAM: Museology of Natural and Human Sciences**

**SPECIALIZATION:**

**Title of the module:** The exhibition professions

**Coordinator:** Fabienne Galangau Quérat

**Organization:**

Semester	ECTS	CM (h)	TD (h)	TP (h)	Number of Weeks	Hours per week	Maximum participants
3	3	30	-	-	-	-	15

**Objectives:**

This teaching aims to give those who are destined for research and the professions of scientific culture, the complementary knowledge that is essential for the conduct of a project. For this purpose, students will meet professionals: scenographer, graphic designer, programmer, lighting designer, lighting designer, lawyer, project manager, exhibition coordinator, etc. and will have to explore the working documents that they themselves may one day have to produce, thus deepening the knowledge acquired in the first year.

**Key words:**

scenographer, graphic designer, programmer, lighting designer, lawyer, cultural space manager, project manager, mediator

**Target skills:**

Knowledge of the professions closely linked to the exhibition.

**Pre-requisites:**

Have completed the module "The exhibition of Natural Sciences and Humanities, Information and Communication"

**Evaluation:**

Date of the evaluation:

Evaluation procedure and scoring:  Written,  Practical,  Continuous Assessment,  Oral

**Contact:**

**DEGREE TITLE: Biodiversity, Ecology, and Evolution****PROGRAM:** Museology of Natural and Human Sciences**SPECIALIZATION:****Title of the module:**

Exhibition and display of the discourse

**Coordinator:** Fabienne.Galangau-Querat, Sacha Mitrofanoff et Sophie Grisolia**Organization:**

Semester	ECTS	CM (h)	TD (h)	TP (h)	Number of Weeks	Hours per week	Maximum participants
3	6		20	40	-	3	12

**Objectives:**

This course is intended for students in the exhibition exhibition professions. Its objective is to confront students with the imperatives of setting up a scientific and heritage exhibition, with the creation of a maquette. The work focuses on the adequacy of content and form (content and layout) and leads students to reflect on the division and articulation of spaces, the management of volumes, atmospheres and visitor flows, the distribution of exhibitions according to the narrative framework... This course in the exclusive form of TP is a direct application of the fundamental and practical teachings given during the two years of the Master's degree; it constitutes a project and a final synthesis.

**Key words:**

exhibition, design, space, flow, atmospheres, model

**Target skills:**

On the basis of a "synopsis", acquire the skills necessary to master the challenges and constraints of setting up an exhibition.

**Pre-requisites:**

Have completed MSNH 7

**Evaluation:**

Date of the evaluation:

Evaluation procedure and scoring:  Written,  Practical,  Continuous Assessment,  Oral**Contact:**

fabienne.galanfau-guerat@mnhn.fr

**DEGREE TITLE: Biodiversity, Ecology, and Evolution****PROGRAM:** Museology of Natural and Human Sciences

UE optional

**SPECIALIZATION :** MSNH3/QPB20**Title of the module:** MSCS28 Preparation for the entrance exam for curator in scientific, technical and natural heritage (PSTN)**Coordinator(s):****Organization of the module:**

Semester	ECTS	CM (h)	TD (h)	TP (h)	Number of Weeks	Hours per week	Maximum participants
3	6	?46?		?14?			

**Objectives of the module:**

This course should prepare students in natural sciences to participate in the entrance exam for curator in scientific, technical and natural heritage

**Key words:**

- Techniques of dissertation
- Techniques of analysis for documents and pictures
- Orals test preparation
- Techniques for synthesizing scientific and popular work

**Target skills:**

Preparation for the entrance exam for curator in scientific, technical and natural heritage (PSTN)

**Pre-requisites:**

None

**Evaluation:**

Date of the evaluation:

Evaluation procedure and scoring:  Written,  Practical,  Continuous Assessment,  Oral

**Contact(s):**

[francois.dusoulier@mnhn.fr](mailto:francois.dusoulier@mnhn.fr) ; [jacqueline.leopold@mnhn.fr](mailto:jacqueline.leopold@mnhn.fr)

**DEGREE TITLE: Biodiversity, Ecology, and Evolution****PROGRAM:** Museology of Natural and Human Sciences**SPECIALIZATION:****Title of the module:** MSNH 21- Conservation-Restoration of Natural & Cultural collections**Coordinator(s):** Amandine Péquignot**Organization of the module:**

Semester	ECTS	CM (h)	TD (h)	TP (h)	Number of Weeks	Hours per week	Maximum participants
3	3	24	3	3	1	30	20

**Objectives of the module:**

Based on the terminology of ICOM-CC (2008), "conservation-restoration" includes all measures and actions aimed at safeguarding tangible cultural heritage. It includes: preventive conservation, curative conservation and restoration. All these measures and actions must respect the meaning and physical properties of cultural property. This module aims at acquiring knowledge about heritage conservation and restoration by addressing the various factors and processes of degradation, the actions to be carried out in terms of curative conservation, the history and deontology of conservation-restoration, the role of the science of conservation. Students will be asked to put into practice during the realization of the state of conservation on objects.

**Key words:**

Conservation-Restoration ; History ; Conservation Science; Preventive and Curative conservation ; Deontology; State of conservation

**Target skills:**

Knowledge and practice of conservation-restoration principles

**Pre-requisites:**

None

**Evaluation:**

Date of the evaluation:

Evaluation procedure and scoring:  Written,  Practical,  Continuous Assessment,  Oral

**Contact(s):**

Amandine Péquignot ([apeq@mnhn.fr](mailto:apeq@mnhn.fr))

**DEGREE TITLE: Biodiversity, Ecology, and Evolution**

**PROGRAM: Museology of Natural and Human Sciences**

**SPECIALIZATION:**

**Title of the module:** Knowledge and diffusion of the library's collections

**Coordinator(s):** H el ene Keller

**Organization of the module:**

Semester	ECTS	CM (h)	TD (h)	TP (h)	Number of Weeks	Hours per week	Maximum participants
3	3		25		1	25	12

**Objectives of the module:**

Introducing the patrimonial collections of the direction of the libraries and their diversity. Presenting the specificities of the professions that allow their collection, conservation, restauration, their provision and valorization for a diverse public. During the sessions, original documents will be presented. The sessions will be held by libraries experts.

**Key words:**

Librairies – Collections – Conservation – Mediation – Diffusion

**Target skills:**

Knowledge of the technics and specificities of the professions of the libraries, concerning collections and their conservation.

**Pre-requisites:**

This option will be held for a minimum of 10 students

**Evaluation:**

Date of the evaluation:

Evaluation procedure and scoring:  Written,  Practical,  Continuous Assessment,  Oral

**Contact(s):**

H el ene Keller ([helene.keller@mnhn.fr](mailto:helene.keller@mnhn.fr))

**DEGREE TITLE: Biodiversity, Ecology and Evolution****Program:** Quaternary, Prehistory, Bioarchaeology**Specialization:****Title of the module:** QPB 25 - Elements of history of prehistoric archeology**Coordinator(s):****Organization:**

Semester	ECTS	CM (h)	TD (h)	TP (h)	Number of Weeks	Hours per week	Maximum participants

**Objectives:**

The teaching is based on a double objective of knowledge acquisition by students and development of an own critical approach:

- To place in a historical and epistemological perspective the theoretical frameworks of prehistoric sciences, practical field and laboratory activities, collections, scientific and museum institutions.
- Contextualize the major stages of the history of prehistoric sciences by highlighting the rhythms, realities and scientific, social and cultural constraints during the nineteenth and twentieth centuries primarily in France and Europe.

**Key words:**

Prehistory, history of science, epistemology, archives, methods, institutional frameworks, heritage, collections, museums, social and intellectual history

**Target skills:**

Develop an analytical capacity based on the acquisition of knowledge, a critical and reflective approach in science and history of science.

**Prerequisites:**

A general knowledge of the great rhythms of social and cultural history of the nineteenth and twentieth centuries is useful. A fluid practice of the French language is necessary because of a pedagogy involving the analysis of texts.

**Evaluation:**

Evaluation procedure and scoring:  Written  Practical  Continuous Assessment  Oral  
Examination is an oral test, collective work prepared during the week. The objective is to determine the skills acquired and the analytical skills of the students. Terms of the second session (oral or written test) depending on the number of candidates.

**Contact(s):**

Arnaud HUREL [arnaud.hurel@mnhn.fr](mailto:arnaud.hurel@mnhn.fr)

**DEGREE TITLE: Biodiversity, Ecology and Evolution****Specialization:** Museology of Natural and Human Sciences**Title of the module: Museum, Collections and Science in the Digital Society****Coordinator(s):** Michel Guiraud, Cedric Boudjema et Fabienne Galangau Quérat**Organization**

Semeste	ECTS	CM (h)	TD/TP (h)	Number of Weeks	Hours per week	Maximum partici-pants
3	3	12	15	1	30	20

**Objectives**

This UE is intended to identify the current and post-Covid landscape of the various transmedia uses of digital technology in museums of science and society, from the digitization of scientific collections to the virtual museum and social networks on the Internet. The students will be led to question participation, the strategies of the actors, the circumscribed social uses

The courses are structured in two parts: a seminar by a professional and workshops to confront students with the different uses of digital technology

**Key words**

Digitization of collections - Constitution and management of digital corpus

Mediation within the exhibition: Interactive, applications and internet

Digital mediation; Virtual museum

Digital debates

**Target skills**

Knowledge of the field. Analytical, writing, and critical capacities. Research methodology.

**Prerequisites**

No prerequisites, especially scientifically, are expected from students.

**Evaluation procedure**

Written  Practical  Continuous Assessment  Oral

**Contacts**

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[Cedric.boudjema@univ-poitiers.fr](mailto:Cedric.boudjema@univ-poitiers.fr)

[Michel.guiraud@mnhn.fr](mailto:Michel.guiraud@mnhn.fr)