

UNIVERSITÀ DEGLI STUDI DI PALERMO

DEPARTMENT	Scienze e Tecnologie Biologiche, Chimiche e Farmaceutiche				
ACADEMIC YEAR	2021/2022				
MASTER'S DEGREE (MSC)	CONSERVATION BIOLOGY				
INTEGRATED COURSE	SAMPLING METHODS - INTEGRATED COURSE				
CODE	21755				
MODULES	Yes				
NUMBER OF MODULES	2				
SCIENTIFIC SECTOR(S)	BIO/05, BIO/03				
HEAD PROFESSOR(S)	MARRON	E FEDI	ERICO	Professore Ordinario	Univ. di PALERMO
OTHER PROFESSOR(S)	MARRON	E FED	ERICO	Professore Ordinario	Univ. di PALERMO
	GUARINO	RICC	ARDO	Professore Associato	Univ. di PALERMO
CREDITS	6				
PROPAEDEUTICAL SUBJECTS					
MUTUALIZATION					
YEAR	2				
TERM (SEMESTER)	1° semester				
ATTENDANCE	Not manda	atory			
EVALUATION	Out of 30				
TEACHER OFFICE HOURS	GUARINO RICCARDO				
	Monday	15:00	17:00	Sede del Consorzio Universitar 92, 93100 Caltanissetta	io, corso Vittorio Emanuele,
	Wednesday 09:00 12:00		12:00	Il ricevimento ha luogo presso lo studio del docente, ubicato in Via Archirafi, 20 - piano 5°. Si specifica che e buona prassi contattare il docente prima del giorno di ricevimento. Il docente e' pienamente disponibile a concordare giorni od orari diversi da quello specificato, previo appuntamento. Per appuntamento, scrivere a:riccardo.guarino@unipa.it	
	MARRONE	E FEDEF	RICO		
	Monday	10:00	11:00	Via Archirafi 18, primo piano, si	tanza 18
	Tuesday	15:00	17:00	Sede del Consorzio Universitar 92, 93100 Caltanissetta	io, corso Vittorio Emanuele,
	Wednesda	10:00	11:00	Via Archirafi 18, primo piano, si	tanza 18
	Friday	10:00	11:00	Via Archirafi 18, primo piano, si	tanza 18

DOCENTE: Prof. FEDERICO MARRONE

PREREQUISITES	To achieve the educational objectives, a basic knowledge of Zoology and Botany is required.
LEARNING OUTCOMES	Knowledge and understanding Knowledge of the different sampling methods of animal and plant organisms. Understanding of the different use, meaning and applicability of each method. Applying knowledge and understanding Ability to choose and apply the correct sampling method. Making judgements Ability to critically analyse and interpret the data coming from the application of different sampling and monitoring techniques. Communication Ability to motivate the choice of a sampling technique and to report on the outcomes of its application with reference to the objectives of the sampling itself. Lifelong learning skills Ability to refer to literature in order to adapt sampling approaches to specific goals and to the environmental conditions of the sampling itself.
ASSESSMENT METHODS	The learning is assessed through an interview. The candidate has to properly answer three to six oral questions dealing with all the programme. The assessment aims at evaluating 1) the knowledge and understanding of the subject, and 2) the acquisition of interpretation expertise and independent judgment. The candidate has to show an adequate knowledge, acquisition of interpretative skills, capacity of connecting and processing the arguments, as well as a relevant presentation capacity. The final grade will be expressed in thirtieth and the interview will be judged as "insufficient" when the student will demonstrate difficulty to focus on the proposed topics, a shallow knowledge of the arguments, and limited exposure ability. As the degree of details of the proven knowledge increases, the positivity of the grade will increase proportionally. The maximum score is obtained in case of excellent mastery and critical interpretation of the subject of the course, along with good communication skills proved by the use of proper scientific language.
TEACHING METHODS	The class will be based on traditional lectures (32 hours, 4 CFU) and practical classes (24 hours, 2 CFU), arranged in two modules.

INLA	MODULE ND WATER FAUNA
Prof. I	FEDERICO MARRONE
SUGGESTED BIBLIOGRAPHY	
Dispense fornite dal docente.	
АМВІТ	20490-A scelta dello studente
INDIVIDUAL STUDY (Hrs)	47
COURSE ACTIVITY (Hrs)	28
EDUCATIONAL OBJECTIVES OF THE MODULE	
The module sizes at any define a basis ly such also of De	la section for allowed and a section of the section

The module aims at providing a basic knowledge of Palearctic freshwater animal diversity, with a special focus on Sicilian fauna, and of sampling and identification techniques for selected animal taxa.

SYLLABUS		
Hrs	Frontal teaching	
2	Introduction	
2	Introduction to Sicilian inland water and their biota	
6	Inland water invertebrates - characteristics and sampling methods	
6	Inland water vertebrates - characteristics and sampling methods	
Hrs	Practice	
12	Sampling and identifying inland water invertebrates	

MODULE FLORA AND VEGETATION

Prof. RICCARDO GUARINO

SUGGESTED BIBLIOGRAPHY

B. Cerabolini (ed.), 2015 - Relazione finale del Programma di monitoraggio scientifico di Specie Vegetali e Habitat della Direttiva 92/43/CE - GESTIRE LIFE11NAT/IT/044

Dispense fornite dal docente

AMBIT 2049	490-A scelta dello studente
INDIVIDUAL STUDY (Hrs) 47	
COURSE ACTIVITY (Hrs) 28	

EDUCATIONAL OBJECTIVES OF THE MODULE

The module aims to provide basic knowledge on the flora and vegetation of Sicily, on the main methods of sampling and identification of vascular plants, on the main methods of analyzing the data collected in the field.

STELABOS	
Hrs	Frontal teaching
2	Introduction: the concepts of "flora", "vegetation", "species / area relationship" and their use in biodiversity assessment and habitat identification.
4	Introduction to the flora and vegetation of Sicily, with particular reference to the habitats of the EU Directive 92/43
4	Floristic survey - methods of field sampling and data analysis
6	Vegetational survey - characteristics and methods of sampling and data analysis
Hrs	Practice
12	Collection and identification of vascular plants, vegetation sampling

SYLLABUS