



General information	
Academic subject	Field trip 1 st year
Degree course	Bachelor's Degree in Nature Sciences
Academic Year	2021-22
European Credit Transfer and Accumulation System (ECTS)	1
Language	Italian
Academic calendar (starting and ending date)	May- June 2022
Attendance	attendance obligation

Professor/ Lecturer	
Name and Surname	Massimo Angelo Caldara
E-mail	massimoangelo.caldara@uniba.it
Telephone	080-5442565
Department and address	Dipartimento di Scienze della Terra e Geoambientali
Virtual headquarters	
Tutoring (time and day)	Monday 11 am-1pm at the studio located on the second floor of the Earth Sciences building, University campus

Syllabus	
Learning Objectives	Exploring the territory for its abiotic and biotic components
Course prerequisites	Knowledge of the topics related to the disciplines taught in the first year
Contents	<p>Three multidisciplinary daily excursions to locations of geomorphological, botanical, and zoological interest</p> <p>1) Bad lands and river areas itinerary: Gravina di Laterza, surroundings of Pisticci, Gravina di Matera, Bari.</p> <p>In this excursion the processes of meteoric degradation (calanchi, biancane, rill gully erosion etc.) and the fluvial processes (braided water courses, meanders, ravines, gorges etc.) together with the typical vegetation of the clayey and riparians with the relative fauna typical of these environments. In addition, there will be a guided tour of the Lipu center of the Gravina di Laterza.</p> <p>2) Gargano itinerary: Manfredonia, Ruggiano, Lake S. Egidio, Piana di Montenero, San Marco in Lamis, Bari.</p> <p>In this excursion, the karst processes (sinkhole, polje and microforme) and slope processes (debris cones, slope debris) will be highlighted together with the typical vegetation of the prairie steppe and deciduous woods (oak groves, beech groves) with the relative fauna typical of these environments. In particular, the fauna of the wetland wreck of the former lake of Sant'Egidio (amphibians, reptiles and birds) will be observed.</p> <p>3) North coast itinerary: Trani, Margherita di Savoia, Oasi Lago Salso, Bari.</p> <p>In this excursion, the marine processes, and their forms (high coasts and low coasts), the coastal plain environments (salt marsh, marshes, and coastal ponds) will be highlighted together with the typical vegetation of the beaches, of the dunes of the wet areas with the relative fauna typical of these environments. Furthermore, there will be a guided tour of the Salso Lake Oasis of the Gargano National Park.</p>
Books and bibliography	The texts recommended in the courses of Geography and Physical Geography, General Botany, General and Systematic Zoology
Additional materials	



Work schedule			
Total	Lectures	Hands on (Laboratory, working groups, seminars, field trips)	Out-of-class study hours/ Self-study hours
Hours			
25		20	5
ECTS			
		1	
Teaching strategy		The course consists of three multidisciplinary excursions regarding the contents of Geography and Physical Geography, General Botany, General and Systematic Zoology	
Expected learning outcomes			
Knowledge and understanding on:		<ul style="list-style-type: none"> ○ Recognition of shapes, plants, and animals on the ground for the purpose of a correct classification. The achievement of this goal is promoted during the field trip 	
Applying knowledge and understanding on:		<ul style="list-style-type: none"> ○ Ability to understand the territory and the plant and animal life on it. Understanding the relationships between soil and ecosystems. Ability to transfer acquired knowledge. This ability is promoted through constant discussions during excursions 	
Soft skills		<ul style="list-style-type: none"> • <i>Making informed judgments and choices</i> <ul style="list-style-type: none"> ○ Acquisition of the scientific method in the study of a natural environment due to its biotic and abiotic component. Autonomous evaluation of the fundamental parameters to be taken into consideration to read the territory. Development of scientific procedures to be adopted to characterize an area of naturalistic interest. Autonomy of judgment is favoured during field activities • <i>Communicating knowledge and understanding</i> <ul style="list-style-type: none"> ○ Acquisition of the specific and technical language of the Natural Sciences. Ability to transfer the knowledge acquired through discussions. Knowing how to describe an area of naturalistic interest. • <i>Capacities to continue learning</i> <ul style="list-style-type: none"> ○ Knowing how to select the fundamental concepts of classifications. Learning skills are stimulated during field exercises as part of the multidisciplinary excursion 	

Assessment and feedback	
Methods of assessment	Verification will be carried out during the graduation session as this is an integral part of the graduation grade. In fact, the final paper consists of its parts, one of which is a Summary Report of the training internships which represents an organic in-depth study of scientific methodologies acquired during the multidisciplinary activities in the field during the three years of the course of study.
Evaluation criteria	<ul style="list-style-type: none"> • <i>Knowledge and understanding</i> <ul style="list-style-type: none"> ○ The student must be able to recognize the main types of forms, physical processes, vegetation present in an area • <i>Applying knowledge and understanding</i> <ul style="list-style-type: none"> ○ The student must be able to properly process the data collected during the excursion. The level of knowledge achieved. and the mastery of the classification criteria will be verified by means of a written summary report accompanied by images.



	<ul style="list-style-type: none">• <i>Autonomy of judgment</i><ul style="list-style-type: none">○ The student must be able to establish the parameters to be taken into consideration in order to get to know a natural environment. The student's commitment will be assessed during the excursion. The final evaluation will take place in the graduation session• <i>Communicating knowledge and understanding</i><ul style="list-style-type: none">○ The student must be able to use an adequate scientific language in the biotic and abiotic field, the use of specific language is the fundamental prerequisite for the final assessment.• <i>Capacities to continue learning</i><ul style="list-style-type: none">○ The student must be able to develop links with the disciplines of the course of study. The assessment of the student's preparation aims to establish reasoning skills and the acquisition of specific language
Criteria for assessment and attribution of the final mark	The Summary Report relating to the activities in the field of the three years involves an evaluation of up to 3 points of the final graduation grade (2 proposed by the supervisors and up to 1 by the Degree Commission).
Additional information	