

General information	
Academic subject	Plant Biology
Degree course	Environmental Sciences
Academic Year	2021-2022
European Credit Transfer and Accumulation System (ECTS)	8
Language	Italian
Academic calendar (starting and ending date)	Sept. 27 2021/January 15 2022
Attendance	Suggested

Professor/ Lecturer	
Name and Surname	Mario De Tullio
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Department and address	Dept. Biology, Section Plant Biology, via Orabona 4, 70125 Bari, Italy
Virtual headquarters	Team code m5tle2f
Tutoring (time and day)	Every day, upon previous e-mail contact

Syllabus	
Learning Objectives	Acquisition of basic knowledge on plant biology and awareness about the importance of plants in environmental dynamics.
Course prerequisites	Notions of chemistry and biology
Contents	Overview of plant organisms. The plant cell: organelles and compartments. Plant tissues and organs. Life cycle of higher plants: Evolution and plant biodiversity; Raunkiaer classification of vegetative buds.
Books and bibliography	Rost et al., Plant Biology Sanità di Toppi, Interazioni piante-ambiente, Piccin Additional teaching material available
Additional materials	http://www-plb.ucdavis.edu/courses/bis/1c/text/PLANTBIOLOGY2.htm

Work schedule			
Total	Lectures	Hands on (Laboratory, working groups, seminars, field trips)	Out-of-class study hours/ Self-study hours
200	63	15	122
ECTS			
8	7	1	
Teaching strategy			
Video assisted classes; Laboratory			
Expected learning outcomes			
Knowledge and understanding on:	Analytical knowledge in biological sciences; capability of making cross-disciplinary connections		
Applying knowledge and understanding on:	Capability of using knowledge and experiences acquired within the classes to gain the full picture of plants dwelling different environments		

Soft skills	<ul style="list-style-type: none"> • <i>Making informed judgments and choices</i> <ul style="list-style-type: none"> ○ The student can make logical connections and develop his/her own informed opinions • <i>Communicating knowledge and understanding</i> <ul style="list-style-type: none"> ○ Students are expected to gain remarkable communication skills when talking about the topics discussed during the classes. • <i>Capacities to continue learning</i> <ul style="list-style-type: none"> ○ Acquisition of the learning skills needed to gain further information and knowledge in parallel with the progress of the discipline.
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Assessment and feedback	
Methods of assessment	<i>Oral exam</i>
Evaluation criteria	<ul style="list-style-type: none"> • <i>Knowledge and understanding</i> The student shows full understanding of the basic concepts of plant form and function, and plant adaptation to the environment • <i>Applying knowledge and understanding</i> The student can use his/her knowledge in environmental monitoring and to solve environmental challenges • <i>Autonomy of judgment</i> The student can make logical connections and develop his/her own informed opinions • <i>Communicating knowledge and understanding</i> The student can correctly express the concepts acquired using proper scientific language • <i>Capacities to continue learning</i> <ul style="list-style-type: none"> ○ The student can progress in his/her educational course and acquire new knowledge
Criteria for assessment and attribution of the final mark	The exam is completed if the student answers correctly to a minimum of three questions, on different topics. Highest grades are obtained if the above-mentioned criteria are fulfilled.
Additional information	

Bari, 11/09/2021

Firma



(Prof.)