Main course information	
Academic subject	General Botany
Degree course	Natural Sciences
Classe di laurea	
ECTS credits (CFU)	6
Compulsory attendance	No
Teaching language	Italian
Accademic Year	2020/2021

Docente responsabile	
Name & SURNAME	Mario DE TULLIO
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Tel.	080 5442158
Tutorial time/day	Every day, please make arrangements by e-mail

Course details	Study area	SSD code	Type of class
		BIO/01	Lecture/workshop

Teaching schedule	Year	Semester
	I	II

Modalità erogazione	CFU/ECTS	Lessons (hours)	CFU/ECTS lab	Lab hours	CFU/ECTS tutorial/workshop	Tutorial/workshop hours	CFU/ECTS field trip	Field trip Hours
	6	48						

Time management	Total hours	Teaching hours	Self-study hours
	200	48	152

Academic Calendar	First lesson	Final lesson
	March 2021	June 2021

Syllabus	
Course entry requirements	Basic notions of chemistry and biology
Expected learning outcomes (according to Dublin Descriptors) (it is recommended that they are congruent with the learning outcomes contained in A4a, A4b, A4c tables of the SUA-CdS)	
Knowledge and understanding	Developing skills in acquiring complex concepts
Applying knowledge and understanding	Contributing to the development of the naturalist's professional toolkit
Making informed judgements and choices	Developing the ability of discriminating between reliable and unreliable sources of information
Communicating knowledge and understanding	Developing skills in describing concepts, biological structures and processes
Capacities to continue learning	Acquiring the capability of obtaining novel information and connecting notions across different disciplines

Sylabus	
Course content	***General introduction*** The ñPlant Kingdomò: Archaeplastida. Endosymbiosis. Notions of plant evolution. ***Cytology*** 1) Plant Cells: general features 2) Plastids. Stromules

	3) Cell wall: structure and functions; secondary modifications. 4) Vacuoles. 5) Cytokinesis: fragmoplast. Plasmodesmata. 6) Growth and differentiation. Tissues. Apoplast and symplast. ***Anatomy*** 1) Primary meristems. Adult tissues. 2) Plant organs: root; stem; leaf; flower; fruit 6) Secondary meristems in roots and stems. Secondary wood. ***Ontogenesis of higher plants*** 1) Seeds; germination 2) Angiosperm life cycle 2) Flowers. ABC model of floral organ specification: 3) Sporogenesi and gametogenesis. Pollination. 4) Fertilization. Seed development. Somatic and zygotic embyogenesis 5) Fruits. ***Plant interactions with different organisms*** 1) Mycorrhiza 2) Root nodules 3) Plant-insect interactions in pollinaton and seed dispersal
Course books/Bibliography	1)Rost, Barbour, Stocking, Murphy. Plant Biology, Wadsworth, London (Biologia delle Piante; Zanichelli). 2)Sanità di Toppi. Interazioni piante-ambiente, Piccin.
Notes	
Teaching methods	Lecture; Inquiry-based learning; Flipped classroom
Assessment methods (indicate at least the type written, oral, other)	Oral
Evaluation criteria (Explain for each expected learning outcome what a student has to know, or is able to do, and how many levels of achievement there are	Assessment of the students' capability of acquiring and properly communicating the course contents.
Further information	