

General Information	
Academic subject	Systematic Botany
Degree course	Natural Sciences
Curriculum	
ECTS credits	6
Compulsory attendance	yes
Language	Italian

Subject teacher	Name Surname	Mail address	SSD
	Viviana Cavallaro	viviana.cavallaro@uniba.it	BIO/02
ECTS credits details	Area		CFU/ETCS
Basic teaching activities	Botany		6
Class schedule			
Period	I semester		
Year	2020/2021		
Type of class			
Time management			
Hours	150		
In-class study hours	48		
Out-of-class study hours	102		

Academic calendar	
Class begins	October
Class ends	January
Syllabus	
Prerequisites/requirements	Basic knowledge in Botany
Expected learning outcomes	<p><i>Knowledge and understanding on:</i> Importance of Systematic Botany in understanding plants biodiversity. The role played by the main methods of the discipline. Concept of species. The ability to recognize taxonomic features. This knowledge should be learned throughout lectures. The various ways of sexual and asexual reproduction in plants. The traits of the principal taxa (in order to understand their evolutionistic meaning). This knowledge will be acquired throughout lectures, discussion, collaborative reasoning and the analysis of various examples</p> <p><i>Applying knowledge and understanding on:</i> The ability to recognize species by using modern methods and to analyze data independently. The ability to use their knowledge to interpret data coming from a floristic analysis. These skills will be reached throughout lectures and case studies</p> <p><i>Making informed judgments and choices</i> The ability to make judgements on botany themes and to interpret experimental datas. Specifically the student will independently interpret taxonomic characters of various vegetals. Lectures and collaborative reasoning will be used to reach these skills.</p> <p><i>Communicating knowledge and understanding</i> The ability to work alone and in groups and to use a proper vocabulary. Collaborative reasoning and role play will be use</p> <p><i>Capacities to continue learning</i> The ability to interpret critically the course contents. The ability to use proper sources and to make proper links between the course contents. Collaborative reasoning will be used</p>

Contents	<p>Concept of species. Taxonomy, nomenclature, systematics and phylogeny. Morphological features having a taxonomic value. The various ways of sexual and asexual reproduction in plants. The life cycle of plants. Isospory and heterospory. Cyanobacteria and their ecological and evolution importance. Eukaryotics algae, reproduction, ecological value: Rhodophyta, Chlorophyta, Charophyta, Euglenophyta, Cryptophyta, Haptophyta, Phaeophyta, Bacillariophyta, . Fungi, systematics, reproduction, ecological value: Oomycota (Oomycetes), Eumycota (Chytridiomycetes, Zygomycetes, Ascomycetes, Basidiomycetes)). Lichens. Bryophyta . : Anthocerotopsida, Marchantiopsida, Bryopsida Phylogenetic relations among the most important vascular plants Pteridophyta : Psilophytopsida, Psilotopsida, Lycopodiopsida, Equisetopsida, Pteropsida. Spermatophyta: Ginkgoopsida, Cycadopsida, Gnetopsida, Pinopsida. Magnoliophytina (Magnoliopsida, Rosopsida, Liliopsida).</p>
Course program	
Bibliography	<p>- Botanica generale e diversità vegetale. Pasqua, Abate, Forni. Editore Piccin Strasburger – Trattato di Botanica sistematica vol. II Delfino Editore Roma</p>
Notes	Further files will be aviable.
Teaching methods	Lectures, collaborative reasoning, role play, study case
Assessment methods	Oral examination. Participation during lessons will also be taken into consideration
Evaluation criteria	<p><i>Knowledge and understanding</i> Students have to learn all course contents. To pass the exam the student should at least know the fallowing topics: concept of species, taxonomy, systematics and phylogeny, morphological features having a taxonomic value, sexual and asexual reproduction in plants, the most important adaptations to aquatic life and on earth, main Spermatophyta traits <i>Applying knowledge and understanding.</i> The ability to recognize plant species by using modern methods and to analyze data independently is considered to be essential. <i>Communicating knowledge and understanding.</i> The ability to communicate properly and in a clear way and</p>

	<p>to use an adequate vocabulary will be taken into consideration.</p> <p><i>Learning skills.</i></p> <p>Students should show to be able to interpret critically the course contents and to make proper connections between them. If they do so, they will be well valued</p> <p>○ xxxx</p>
Further information	<p>On Tuesday and Wednesday from 11,30 to 13,30, at my personal studio, at the 1st floor of the “ Biologia vegetale” palace- Campus. presso lo studio sito al primo piano del palazzo di biologia vegetale – Campus. Please write an e-mail to take an appointment</p>