UCL Université catholique de Louvain

LBIO1241A

2015-2016

Complements of plant biology

3.0 credits	22.5 h + 15.0 h	1q

Teacher(s) :	Lutts Stanley ;
Language :	Français
Place of the course	Louvain-la-Neuve
Prerequisites :	*The prerequisite(s) for this Teaching Unit (Unité d'enseignement – UE) for the programmes/courses that offer this Teaching Unit are specified at the end of this sheet.*
Main themes :	Specific characters of plants are first detailed. The major groups - bryophytes, pteridophytes, spermatophytes - are then studied, exploiting morphological and physiological data. Emphasis is put on the evolution of the life cycles. Classification of organisms in each each group is considered as accessory, the main goal being to situate, in the evolution process, known or important organisms and to understand the evolutionary steps which culminated with the emergence and success of the angiosperms. Essential physiological adaptations linked to the colonization of terrestrial ecosystems by plants as well as their morphological and anatomical implications are described. Evolution of these properties are analysed in relation to the main pedoclimatic changes since Carboniferous period and emphasis is put on the critical influence of the stationnary life habit of plants upon the emergence of evolutionary specificities to cope with environmental changes. The structure, maintenance and functionning of the shoot apical meristem are studied. Regulation of floral transition and of the morphogenesis, development and functionning of the reproductive structures (inflorescence, flowers, seeds, fruits) is reviewed. Flower organography is detailed with the aim to initiate the student to the practical use of a flora and the identification of plants commonly growing in our countries.
Aims :	To allow the student to acquire a global view of the plant kingdom, looking at characters these organisms have in common and at their diversity on a morphological point of view as well as in their biology. Particular emphasis is put on the mechanisms of angiosperm reproduction *The contribution of this Teaching Unit to the development and command of the skills and learning outcomes of the programme(s) can be accessed at the end of this sheet, in the section entitled "Programmes/courses offering this Teaching Unit".*
Faculty or entity in charge:	BIOL

Programmes / formations proposant cette unité d'enseignement (UE)

Intitulé du programme	Sigle	Credits	Prerequis	Acquis d'apprentissage
Bachelor in Biology	BIOL1BA	3	LBIR1130 **and** LBIO1111 **and** LBIO1112	🔍
Minor in Scientific Culture	LCUSC100I	3	-	🔍
Bachelor in Bioengineering	BIR1BA	3	LBIO1112	🔍