



Official Syllabus
General Plant Morphology
BIOL 5007

Credit hours: 3	Contact hours: 5
Prerequisites: BIOL 3417	Corequisites:
Course description in Spanish: Los principios generales de la morfología vegetal, incluyendo tendencias evolutivas, líneas filogenéticas y los ciclos de vida de los grupos principales de plantas vasculares.	
Course description in English: The general principles of plant morphology, including evolutionary tendencies, phylogenetic lines and the life cycles of the principal groups of vascular plants.	
Objectives: To use observation of structure to determine possible relationships among various groups of extinct and extant taxa of vascular plants.	

Outline of content:

<i>Topics to be covered</i>	<i>Contact hours</i>
Lecture + laboratory:	
Introduction: The concept of homology. Sources of evidence in morphological interpretation: adult structure, fossil record, ontogeny, physiology and morphogenesis.	2 + 3
Early land plants; plant organography and the salient features of vascular plants.	4 + 6
Early vascular plants: Rhyniophyta, Zosterophyllophyta, Trimerophytophyta	2 + 3
Lycophyta.	4 + 6
Pterophyta, Eusporangiate groups: Psilophytes, Sphenophytes, Ophioglossales, Marattiales.	4 + 6
Pterophyta: Leptosporangiate ferns, Heterosporous aquatic ferns	4 + 6
Gymnosperms: Progymnosperms, Pteridospermophyta, Cycadeoidophyta, Cycadophyta, Ginkgophyta, Coniferophyta.	4 + 6
Gnetophyta.	2 + 3
Magnoliophyta.	4 + 6
Total hours: (should be equivalent to the contact hours of the course)	30 + 45

Instructional strategies:

- lecture discussion computation laboratory
seminar with formal presentation seminar without formal presentation workshop
art workshop practicum trip thesis special problems tutorial
research other (specify): Lab notebook

Minimal resources available:

Herbarium, preserved and living materials, literature and internet access are provided. There are no recent textbooks on the subject.

Evaluation strategies and their relative weight:

	Percentage
<input checked="" type="checkbox"/> written exams	25
<input type="checkbox"/> oral reports	
<input type="checkbox"/> monographs	
<input type="checkbox"/> portfolio	
<input type="checkbox"/> reflexive diary	
<input checked="" type="checkbox"/> other (specify): lab practical	25
<input checked="" type="checkbox"/> other (specify): lab notebook	50
TOTAL: 100%	100 %

Grading system:

- quantifiable (letter grade) not quantifiable

References:

Después de identificarse con el profesor y la institución, los estudiantes con impedimento recibirán acomodo razonable en sus cursos y evaluaciones. Para más información comuníquese con Servicios a Estudiantes con Impedimentos en la Oficina del Decano de Estudiantes (Q-019), 787-265-3862 ó 787-832-4040 x 3250 ó 3258.

Attachments included:

- Yes
 No