

Liverpool John Moores University

Title: Botany
Status: Definitive
Code: **3501YAUBIO** (127815)
Version Start Date: 01-08-2021

Owning School/Faculty: Biological and Environmental Sciences
Teaching School/Faculty: Yunnan Agricultural University

Team	Leader
Katie Evans	Y

Academic Level: FHEQ3 **Credit Value:** 20 **Total Delivered Hours:** 122
Total Learning Hours: 200 **Private Study:** 78

Delivery Options

Course typically offered: Semester 1

Component	Contact Hours
Lecture	56
Practical	64

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	AS1	Exam	25	2
Practice	AS2	Practical relating to plant classification and identification	25	
Exam	AS3	Exam covering observation and description of plants	15	
Exam	AS4	Exam covering botanical experimental techniques	30	
Report	AS5	Report	5	

Aims

Botany is a science that studies the morphological structure, physiological function, growth and development rules of plants, the evolution and classification of plants and

the utilisation of plant resources. The module aims to provide students with an opportunity to master the external form and internal structure of plants, growth and development rules by the study of this module. Students will develop a basic knowledge of plant classification and plant kinship.

Learning Outcomes

After completing the module the student should be able to:

- 1 Outline the basic concepts, basic knowledge and basic principles of botany.
- 2 Describe botany research methods with a strong ability to identify and use plant resources.
- 3 Describe the principles and methods of plant morphological structure and phylogenetic development, and explain the relationship between various plants and agricultural production.
- 4 Demonstrate the basic knowledge and skills of observation, anatomy, description, retrieval and identification of plants.

Learning Outcomes of Assessments

The assessment item list is assessed via the learning outcomes listed:

Exam	1	2	3	4
Practice	1	2	3	4
Exam 1	1	2	3	4
Exam 2	1	2	3	4
Report	1	2	3	4

Outline Syllabus

The main contents of the module include plant cells and tissues, vegetative organs of angiosperms, reproductive organs of angiosperms, and plant classification. Students will master the use of microscopes, methods and techniques such as freehand sectioning, mounting, staining and biological drawing, along with gaining the basic knowledge and skills of observation, anatomy, description, retrieval and identification of plants.

Learning Activities

The module content will be delivered through lectures and practical activities. Theoretical lectures will provide appropriate subject knowledge to support practical application.

Notes

The module is designed to provide students with an understanding of the principles and development of botany through practical operation and the study of botanical experimental techniques. Students will also further their understanding of theoretical knowledge.