

Liverpool John Moores University

Title: Crop Science and Technology
Status: Definitive
Code: **4502YAUBIO** (127883)
Version Start Date: 01-08-2021

Owning School/Faculty: Pharmacy & Biomolecular Sciences
Teaching School/Faculty: Yunnan Agricultural University

Team	Leader
Katie Evans	Y

Academic Level: FHEQ4 **Credit Value:** 20 **Total Delivered Hours:** 50
Total Learning Hours: 200 **Private Study:** 150

Delivery Options

Course typically offered: Semester 1

Component	Contact Hours
Lecture	38
Practical	10

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	AS1	Exam	70	2
Practice	AS3	Coursework	20	
Exam	AS2	Test	10	

Aims

The aim of this module is for individuals to develop an understanding of the crop science developments, principles and application in crop science. Students are required to understand principles in agro-ecology, cultivation science, genetics, breeding science, and crop cultivation. Students will also develop an understanding of theoretical knowledge and application which will support the ability of individuals to devise and deliver appropriate practical sessions, and to apply this technology to

scientific research.

Learning Outcomes

After completing the module the student should be able to:

- 1 Explain the basic concepts, theory, methods and technology, relevant to crop science.
- 2 Investigate the technical measures of crop production and the implementation protocol of cultivar improvement.
- 3 Create the optimised conditions which meet the high yield, good quality and high efficiency of crop production based on the internal and external causes of crop variety.
- 4 Describe the progress in the theory of crop production and its utilisation.

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	2	3	4

Outline Syllabus

The module provides an understanding of crop generality including an overview of crop science, classification of crops, crop origin and distribution, breeding of crop varieties and fine breed propagation, crop growth and development, crop yield formation, crops and ecological environment, crop production technology and planting system.

Learning Activities

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

Notes

This module allows students to develop an understanding of the crop science developments, principles and application in crop science. Students will also develop basic practical skills in crop generality.