Liverpool John Moores University

Title:	FOOD SECURITY, NUTRITION AND HEALTH
Status:	Definitive
Code:	**7135NATSCI** (126195)
Version Start Date:	01-08-2021
Owning School/Faculty:	Biological and Environmental Sciences
Teaching School/Faculty:	Biological and Environmental Sciences

Team	Leader
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Academic Level:	FHEQ7	**Credit Value:**	20	**Total Delivered Hours:**	42
Total Learning Hours:	200	**Private Study:**	158		

Delivery Options
Course typically offered: Semester 2

Component	Contact Hours
Lecture	14
Practical	11
Tutorial	8
Workshop	7

Grading Basis: 50 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Portfolio	PORTFOLIO	Problem-based learning exercise	60	
Exam	EXAM	Essay questions	40	2

Aims

To explain the major links between food production and availability, nutrition, and

health, both at the individual and the population levels, from small communities to the global perspective.

Learning Outcomes

After completing the module the student should be able to:

1	Critically evaluate differing crop production systems needed to meet future global food demands
2	Critically analyse the link between nutrition, health and food
3	Critically assess the risks to animal and human health associated with the availability of healthy and nutritious foods

Learning Outcomes of Assessments

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

PORTFOLIO	1	2	3
EXAM	1	2	3

Outline Syllabus

The module will look at the links between food, nutrition and health for the individual and within populations. Students will learn the role of foods and nutrients on the maintenance of health and the risk of disease, looking at different forms of malnutrition (i.e. single nutrient deficiencies, undernutrition, and overnutrition leading to obesity). They will also learn about biotechnology solutions for food security and food safety, considering a range of topics that include bioavailability, food quality, reliance on major staple crops, soil health and its link to food quality, and the contribution of food security and availability to the increased risks of malnutrition worldwide.

Learning Activities

This module will be delivered though a problem-based learning approach, using a combination of workshops and lectures supported by laboratory practical sessions.

Notes

This module will explore the relationships between food, nutrition and health, with a main focus on the key aspects of food production and plant biotechnology in relation to health and disease.