

Liverpool John Moores University

Title: SCIENTIFIC DEVELOPMENTS IN NUTRITION
Status: Definitive
Code: **6009BCBMOL** (101453)
Version Start Date: 01-08-2011

Owning School/Faculty: Pharmacy & Biomolecular Sciences
Teaching School/Faculty: Pharmacy & Biomolecular Sciences

Team	Leader
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Academic Level: FHEQ6 **Credit Value:** 24.00 **Total Delivered Hours:** 47.00

Total Learning Hours: 240 **Private Study:** 193

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	21.000
Seminar	10.000
Tutorial	9.000
Workshop	5.000

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	Exam	Exam	50.0	2.00
Essay	Chapter	online book chapter	30.0	
Presentation	Oral	oral communication - performance in tutorials and oral presentation	20.0	

Aims

This module examines a diverse range of topics that reflect scientific developments in Nutrition in the 21st century. Ethical and contentious issues are addressed where appropriate and clinical data are analysed. This module is student centred and gives students the opportunity to focus on the development of key skills.

Learning Outcomes

After completing the module the student should be able to:

- 1 discuss scientific developments in the field of nutrition and be aware of any ethical implications;
- 2 research an area of current importance and deliver this material as a short lecture (20 min) and a chapter for an online book;
- 3 analyse and interpret data;
- 4 explain the relevance of biochemistry to various clinical conditions relating to aspects of nutrition.

Learning Outcomes of Assessments

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

EXAM	1	4
Written book chapter	2	3
Oral communication	2	3

Outline Syllabus

The module encompasses a far-reaching range of topics which may change from year to year to reflect current scientific issues and developments in nutrition. Topics that may be covered include:

Genetics of obesity

Advanced molecular methods for microbial identification in foods

Food allergies

Application of microorganisms in food production

Principles and ethics of food production

Functional foods and drug interactions

Diet and cancer

Diet and osteoporosis

Clinical biochemistry related to nutrition, such as, carbohydrate metabolism and associated disorders (diabetes and hypoglycaemia), cardiovascular disease, gastrointestinal tract and associated disorders

Food labelling in relation to nutritive value

Food analysis and characterisation

Food processing and changes in food properties

Health and safety in relation to residues in food

Learning Activities

This module is very much orientated towards student participation and active learning. Students will have the opportunity to demonstrate competence in a number of key skills, such as time management, communication, working with others, managing tasks, ICT and creativity. There will be several keynote lectures in a range of topics, students then focus on one topic area to write a chapter for an online book and also to deliver the material as a short lecture. Learning activities also include traditional lectures, tutorials and workshops. The tutorials play a key role as they facilitate a) the production of the online book and accompanying short lecture; b) group work in the analyse and interpretation of data presented through case studies.

References

Course Material	Book
Author	Current journals such as, British Journal of Nutrition, American Journal of Clinical Nutrition
Publishing Year	0
Title	
Subtitle	
Edition	
Publisher	
ISBN	

Notes

This module is structured to promote students as independent, autonomous learners. Key skills acquired at levels 1 and 2 are built upon using the knowledge base delivered in this module, students are able to practise these skills at a higher level. One of the assessed activities involves all students taking on the role of collaborating science authors and all that entails, such as meeting deadlines to the publication of the finished book and promoting their work through a series of lectures.

Indicative references - current journals such as, British Journal of Nutrition, American Journal of Clinical Nutrition.