

# This Version is No Longer Current

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MODULE DESCRIPTOR					
<b>Module Title</b>					
Food, Energy and	Nutrients				
Reference	AS1007	Version	1		
Created	June 2017	SCQF Level	SCQF 7		
Approved	June 2018	SCQF Points	30		
Amended		ECTS Points	15		

#### Aims of Module

To provide students with knowledge of the classification of food commodities, and an understanding of energy balance and nutrients in food.

#### **Learning Outcomes for Module**

On completion of this module, students are expected to be able to:

- 1 Describe the classification of the major food commodities and their contribution to a balanced diet.
- 2 Describe the principles of energy balance, including methods of its measurement and estimation.
- Describe the properties, functions and food sources of nutrients, and the causes and consequences of inadequate and excessive intakes, including prevention and treatment.
- 4 Describe the processes involved in nutrient absorption, metabolism, storage, interactions, and excretion.
- Explain the concept, determination and application of dietary reference values, and advise about modifying a diet to meet dietary recommendations.

## **Indicative Module Content**

Fruits and vegetables, beans and pulses, herbs and spices, dairy foods and milk, eggs, beverages, meat, seafood, cereals, oils and spreads, and the Eatwell Guide. Dietary reference values. Energy, energy balance, energy intake, energy expenditure, physical activity, and physical activity guidelines. Dietary protein, carbohydrate, lipids, water and fluid balance, alcohol, vitamins, minerals and trace elements. Structure, function, distribution, digestion, absorption, transport, storage and excretion; bioavailability; requirements; and nutrient analysis. Sources, supplementation, fortification, average intakes and nutritional status. Deficiency and toxicity signs, symptoms, prevention and treatment.

### **Module Delivery**

Theoretical material is delivered by lectures and web based material that is contextualised by tutorials and practicals including dietary analysis.

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Indicative Student Workload	Full Time	Part Time
Contact Hours	80	N/A
Non-Contact Hours	220	N/A
Placement/Work-Based Learning Experience [Notional] Hours	N/A	N/A
TOTAL	300	N/A
Actual Placement hours for professional, statutory or regulatory body		

### **ASSESSMENT PLAN**

If a major/minor model is used and box is ticked, % weightings below are indicative only.

## **Component 1**

Type: Examination Weighting: 70% Outcomes Assessed: 1, 2, 3, 4

Description: An unseen, closed book examination.

Component 2

Type: Coursework Weighting: 30% Outcomes Assessed: 5

Description: A report on a 7-day diet and activity diary analysis.

#### MODULE PERFORMANCE DESCRIPTOR

### **Explanatory Text**

This module is assessed using the two components of assessment as detailed in the Assessment Plan. To pass this module, students must achieve a module grade D or better.

Module Grade	Minimum Requirements to achieve Module Grade:	
Α	Final aggregate mark of 70% or greater and a minimum of 35% in C1 and C2.	
В	Final aggregate mark of 60-69% and a minimum of 35% in C1 and C2.	
С	Final aggregate mark of 50-59% and a minimum of 35% in C1 and C2.	
D	Final aggregate mark of 40-49% and a minimum of 35% in C1 and C2.	
E	MARGINAL FAIL. Final aggregate mark of 35-39% and a minimum of 35% in C1 and C2.	
F	FAIL. A mark of less than 35% in either Component.	
NS	Non-submission of work by published deadline or non-attendance for examination	

### **Module Requirements**

Prerequisites for Module None, in addition to course entry requirements.

Corequisites for module None.

Precluded Modules None.

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#### INDICATIVE BIBLIOGRAPHY

- BENDER, D.A., 2014. *Introduction to nutrition and metabolism*. 5th ed. Boca Raton FL: CLC Press Taylor and Francis Group.
- 2 CAMPBELL PLATT, G., ed., 2018. Food science and technology. 2nd ed. Hoboken, NJ: Wiley Blackwell.
- DEPARTMENT OF HEALTH, 1991. Dietary reference values for food, energy and nutrients for the United Kingdom. Report on health and social subjects, 41. London: HMSO.
- 4 INSEL, P.M., et al., 2017. Nutrition. 6th ed. Burlington, MA: Jones and Bartlett Publishers.
- 5 LANHAM-NEW, S.A. et al., eds., 2020. Introduction to human nutrition. 3rd ed. Chichester: Wiley Blackwell.
- 6 LANHAM NEW, S.A., MACDONALD, I.A. and ROCHE, H.M., 2010. *Nutrition and metabolism*. 2nd ed. Hoboken: John Wiley and Sons, Ltd.
- 7 SCIENTIFIC ADVISORY COMMITTEE ON NUTRITION, 2011. Dietary reference values for energy. London: TSO.
- 8 SCIENTIFIC ADVISORY COMMITTEE ON NUTRITION, 2015. Carbohydrates and health. London: TSO.