

Programme Specification

BSc Food Science with Business

For students entering Part 1 in September 2020

UCAS Code: D690

UFFDWBUS

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This document sets out key information about your Programme and forms part of your Terms and Conditions with the University of Reading.

Awarding Institution	University of Reading
Teaching Institution	University of Reading
Length of Programme	3 years
Length of Programme with placement/year abroad	BSc Food Science with Business with Industrial Training - 4 years (UCAS Code: D691)
Accreditation	

Programme information and content

The programme, offered in collaboration with Henley Business School and School of Agriculture Policy and Development, aims to provide a degree-level education from which graduates can enter a career in the food industry (or employment in other sectors of the food chain, or related scientific and marketing sectors) as professionals capable of assisting in the scientific evaluation of food, and of undertaking analysis of the economics and marketing of safe and quality foods. Students will learn to integrate the scientific disciplines relevant to food and to undertake research into problems relating to the science, economics and marketing of food. Acquisition of such a unique set of skills is envisaged to transform them into a very powerful, highly sought-after professional able to accelerate the effectiveness of innovation and profitability in any company within the food supply chain.

The Food Science with Business programme aims to:

- Provide a programme of education which enables its graduates to enter a career in the food industry as professionals capable of assisting in the scientific evaluation of food, and of undertaking analysis of the economics and marketing of safe and quality foods.
- Provide a broad-based education combining science and business, whose graduates can also enter into employment in other sectors of the food chain, or related scientific and marketing sectors, where they can apply their skills.
- Allow individuals to develop their capacity to undertake research into the science of foods and their economics and marketing.
- Provide undergraduates with opportunities to develop their inter-personal and communication skills.
- Enable graduates to meet the entry requirements of the Institute of Food Science and Technology (IFST)

Part 1:	Introduces students to the foundations of the degree, with a strong focus on economics and marketing, as well fundamental science modules and
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	awareness of the food chain and food industry. The modules in Part 1 ensure that students have sufficient knowledge to underpin their later studies.
Part 2:	Provides students with a focus on economic and financial aspects of food science, in particular marketing and financial management. Moreover, Part 2 gives an introduction to food processing and composition, sensory concepts, food quality and safety, to provide the crucial link between the economic and scientific aspects of the programme.
Placement/Study abroad year:	The placement year normally takes place between Parts 2 and 3 of this degree programme. It is an opportunity for students to apply their skills in a 'real-world' environment and gain invaluable experience.
Part 3:	<p>Gives students the opportunity to apply their knowledge to the development of a food-science related venture project. Students will also conduct their research project (dissertation) and deepen their knowledge of business and marketing strategy, as well as advanced sensory concepts and approaches, food flavour chemistry, food quality systems, including application of HACCP safety system and legal aspects of foods.</p> <p>This last multidisciplinary part in students' education will allow them to successfully embark in step-change innovation and/or creating new innovation-rich business opportunities within the food supply chain.</p>

Module information

Each part comprises 120 credits, allocated across a range of compulsory and optional modules as shown below. Compulsory modules are listed.

Part 1 Modules:

Module	Name	Credits
AP1EE3	Economics 1	10
AP1EM1	Introduction to Marketing	10
BI1S1	Introductory Microbiology	10
CH1FC3	Molecular Studies for the Life Sciences	10
FB1AG2	Farm to Fork	20
FB1EP2	Introduction to Food Processing and Engineering	20
FB1MB1	Introduction to Food Microbiology	10
MM1F10	Student Enterprise	20

Students must select a further 10 credits from a list of optional modules provided by the Department of Food and Nutritional Sciences.

CH1FC1: Fundamental Concepts in Chemistry module is compulsory for students who have not obtained a minimum of a C grade in A-level Chemistry.

Part 2 Modules:

Module	Name	Credits	Level
FB1PN	Introduction to Human Physiology and Nutrition	20	4
FB2C20	Composition and Properties of Foods	20	5
FB2EFP	Food Processing	20	5
FB2FQS	Food Quality and Sensory Science	10	5
FB2MF2	Microbiological Hazards in Foods	10	5
FB2PYA	Industrial Training Preparation	0	5

In Part 2 students will select one of the three alternative routes within the programme:

The Marketing Route:

MM260	Innovation and Market Entry	20	5
AP2EM1	Marketing Management	10	5
AP2SB2	Financial Management	10	5

The Retail Route:

AP2EM2	Food Retailing	10	5
AP2SB1	Business Management	10	5
MM270	Practice of Entrepreneurship	20	5

The Financial Route:

AP2EM2	Food Retailing	10	5
AP2SB1	Business Management	10	5
AP2EM1	Marketing Management	10	5
Either			
AP2SB2	Financial Management	10	5
Or			
AP1EE3	Economics	10	5

If you take a year-long placement or study abroad, Part 3 as described below may be subject to variation.

Part 3 Modules:

Module	Name	Credits	Level
AP3EM1	Marketing Strategy	10	6
FB3FLV	Advanced Flavour Chemistry	10	6

FB3FPD	Food Product Development	20	6
FB3PFB	Research Project	40	6
FB3QSF	Advanced Food Quality and Sensory	10	6
MM392	Entrepreneurial Management Venture Project	20	6

Students must select a further 10 credits from a list of optional modules provided by the Department of Food and Nutritional Sciences.

Note that students taking the Retail Route through the programme must take AP3EB3 Supply Chain Management (10 credits, Level 6) instead of AP3EM1 Marketing Strategy (10 credits, Level 6).

Optional modules:

The optional modules available can vary from year to year. An indicative list of the range of optional modules for your Programme is set out in the Further Programme Information. Details of optional modules for each part, including any Additional Costs associated with the optional modules, will be made available to you prior to the beginning of the Part in which they are to be taken and you will be given an opportunity to express interest in the optional modules that you would like to take. Entry to optional modules will be at the discretion of the University and subject to availability and may be subject to pre-requisites, such as completion of another module. Although the University tries to ensure you are able to take the optional modules in which you have expressed interest this cannot be guaranteed.

Additional costs of the programme

During your programme of study you will incur some additional costs.

For textbooks and similar learning resources, we recommend that you budget between £50 to £150 a year. Some books may be available second-hand, which will reduce costs. A range of resources to support your curriculum, including textbooks and electronic resources, are available through the library. Reading lists and module specific costs are listed on the individual module descriptions.

Placement opportunities

You will be provided with the opportunity to undertake a credit-bearing placement as part of your Programme. This will form all or part of an optional module. You will be required to find and secure a placement opportunity, with the support of the University.

Teaching and learning delivery:

You will be taught through seminars, lectures, workshops and practicals.

Total study hours for each Part of your programme will be 1200 hours. The contact hours for your programme will depend upon your module combination; an average for a typical set of modules on this programme is Part 1 - 408 hours, Part 2 - 432 hours, Part 3 - 276 hours. In addition to your scheduled contact hours, you will be expected to undertake

guided independent study. Information about module contact hours and the amount of independent study which a student is normally expected to undertake for a module is indicated in the relevant module description.

Accreditation details

N/A

Assessment

The programme will be assessed through a combination of written examinations, coursework, oral examinations and practical examinations.

Progression

The University-wide rules relating to 'threshold performance' as follows

Part 1

- (i) obtain an overall average of 40% over 120 credits taken in Part 1; and
- (ii) obtain a mark of at least 30% in individual modules amounting to at least 100 credits taken in Part 1.

In order to progress from Part 1 to Part 2, a student must achieve a threshold performance; and

- (iii) obtain at least 40% in Theme 1 (CH1FC3 and CH1FC1 where applicable); and
- (iv) obtain at least 40 % in EACH module of Theme 7 (AP1EE3, AP1EM1, MM1F10)

The achievement of a threshold performance at Part 1 qualifies a student for a Certificate of Higher Education if they leave the University before completing the subsequent Part.

Part 2

To gain a threshold performance at Part 2, a student shall normally be required to:

- (i) obtain a weighted average of 40% over 120 credits taken at Part 2; and
- (ii) obtain marks of at least 40% in individual modules amounting to at least 80 credits; and
- (iii) obtain marks of at least 30% in individual modules amounting to at least 120 credits, except that a mark below 30% may be condoned in no more than 20 credits of modules owned by the Department of Mathematics and Statistics.

In order to progress from Part 2 to Part 3 in the **3 year programme**, a student must achieve a threshold performance and

(iv) obtain at least 40% in EACH module of Theme 1 (FB2C20) and Theme 4 (FB2EFP) and

(v) For the marketing route, obtain at least 40% in MM260, AP2EM1 and AP2SB2; for the retail route, obtain at least 40% in AP2EM2, AP2SB1 and MM270; and for the financial route, obtain at least 40% in AP2EM2, AP2SB1, AP2EM1 and AP2SB2 or AP1EE3.

In order to progress from Part 2 to Part 3 in the **4 year programme**, a student must achieve a threshold performance and obtain a pass in the professional/work placement or study abroad year. Students who fail the professional/placement year transfer to the non-placement year version of the programme.

The achievement of a threshold performance at Part 2 qualifies a student for a Diploma of Higher Education if they leave the University before completing the subsequent Part.

In order to achieve a BSc Honours degree students are required to achieve a mark of at least 30% in the final year project module FB3PFB.

Classification

Bachelors' degrees

The University's honours classification scheme is based on the following:

Mark	Interpretation
70% - 100%	First class
60% - 69%	Upper Second class
50% - 59%	Lower Second class
40% - 49%	Third class
35% - 39%	Below Honours Standard
0% - 34%	Fail

The weighting of the Parts/Years in the calculation of the degree classification is:

Three year programmes:

Part 2: one-third

Part 3: two-thirds

Four year programmes, including professional/work placement or study abroad:

Part 2: one-third

Placement/Study Abroad Year abroad not included in the classification

Part 3: two-thirds

For further information about your Programme please refer to the Programme Handbook and the relevant module descriptions, which are available at <http://www.reading.ac.uk/module/>. The Programme Handbook and the relevant module descriptions do not form part of your Terms and Conditions with the University of Reading.

BSc Food Science with Business for students entering Part 1 in session 2020/21

25 April 2023

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