



## **Module Specification**

### **Business Analysis and Decision-Making**

Version: 2023-24, v2.0, 19 Jul 2023

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## Part 1: Information

**Module title:** Business Analysis and Decision-Making

**Module code:** UFCFGN-30-3

**Level:** Level 6

**For implementation from:** 2023-24

**UWE credit rating:** 30

**ECTS credit rating:** 15

**Faculty:** Faculty of Environment & Technology

**Department:** FET Dept of Computer Sci & Creative Tech

**Partner institutions:** None

**Field:** Computer Science and Creative Technologies

**Module type:** Module

**Pre-requisites:** None

**Excluded combinations:** None

**Co-requisites:** None

**Continuing professional development:** No

**Professional, statutory or regulatory body requirements:** None

## Part 2: Description

**Overview:** A business analyst is responsible for assessing the business impact of change, capturing, analysing and documenting requirements and supporting the communication and delivery of requirements with relevant stakeholders. They create detailed analysis of systems and make recommendations for improvement. They produce specifications of user requirements that enable software engineers to develop the right software solutions. They require a broad foundation of skills and

knowledge to be able to be effective as their work incorporates all aspects of digital technology systems.

**Features:** Not applicable

**Educational aims:** See Learning Outcomes

**Outline syllabus:** Structured processes for identifying, defining and analysing unstructured business problems, their root cause and impact

Modelling and analysis techniques to describe business problem scenarios and to help select solutions using a range of industry standard analysis techniques

Prioritise business requirements for an IT system using 'industry best practice' methods

Develop clear, complete, unambiguous and testable requirements specification, including functional, non-functional, data, user interface and security requirements

Model the 'as is' and future state for a business process using industry standard approaches and notation

Use 'industry' standard tools to facilitate the analysis, documentation and traceability of requirements

Models of system functionality using industry standard approaches such as use case diagrams with supporting use case descriptions

Techniques to document, analyse and redesign business processes

Models of system data, such as entity relationship models or analysis class models, with supporting descriptions

Business analysis tools and techniques to real world scenarios

The use of requirements elicitation techniques and their relevance to given situations

The principles of requirements engineering and the importance of managing requirements

How to conduct a range of business/organisational analyses

The use of tools to support modelling and requirements engineering

How the selected models inter-relate with each other

How the products of analysis feed into the design and development of a system

The problems that can arise with requirements and how these can be mitigated

The principles of requirements validation and approaches to validating requirements

How to develop, document and prioritise a set of functional and non-functional requirements

### **Part 3: Teaching and learning methods**

**Teaching and learning methods:** 72 hours scheduled learning

228 hours research, independent study and preparation for assessment work

Scheduled learning will typically include lectures, seminars, supervision, external visits and an interactive forum.

All apprentices are expected to attend a series of tutorials.

Introductory lectures are supported by seminars, case studies, visits and practical workshops. In addition this module will be supported by interactive forums and learning tools.

300 hours study time of which 72 hours will represent scheduled learning. Scheduled learning includes lectures, seminars, tutorials, demonstration, practical classes and workshops; external visits; supervised time in studio/workshops.

Independent learning includes hours engaged with essential reading, case study preparation, assignment preparation and completion. Apprentice study time will be organised each week with a series of both essential and further readings and preparation for practical workshops. It is suggested that preparation for lectures, practical workshops, session delivery and seminars will take 7 hours per week.

**Module Learning outcomes:** On successful completion of this module students will achieve the following learning outcomes.

**MO1** Develop and maintain models of system functionality using industry standard approaches such as use case diagrams with supporting use case descriptions

**MO2** Develop a clear, complete, unambiguous and testable requirements specification, including functional, non-functional, data, user interface, and security requirements

**MO3** Develop models of system data, such as entity relationship models or analysis class models, with supporting descriptions

**MO4** Identify, justify and use selected models against business objectives and system requirements

**MO5** Apply and justify structured processes for identifying, defining and analysing unstructured business problems, their root cause and impact

**MO6** Develop and apply modelling and analysis techniques to describe business problem scenarios and to help select solutions using a range of industry standard analysis techniques

**MO7** Adapt business analysis tools and techniques to real world scenarios

**Hours to be allocated:** 300

**Contact hours:**

Independent study/self-guided study = 228 hours

Face-to-face learning = 72 hours

Total = 300

**Reading list:** The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://uwe.rl.talis.com/index.html) via the following link <https://uwe.rl.talis.com/index.html>

## Part 4: Assessment

**Assessment strategy:** At both first sit and resit, this module is assessed by a combination of techniques: time controlled assessment (3 hours) and a workplace project (3,000 words).

### Time Controlled Assessment (TCA)

Based on a pre-seen case study - apprentices will be required to develop a model(s) of system functionality using industry standard approaches. Develop a testable requirements specification, including functional, non-functional, data, user interface, and security requirements. Prior to the TCA, apprentices will be required to develop appropriate models of system data that will be available in the in the TCA.

Apprentices will be required to evaluate selected models against business objectives and system requirements for a chosen work based scenario. Apprentices will be required to apply structured processes for identifying, defining and analysing unstructured business problems, their root cause and impact. Modelling and analysing techniques to describe business problem scenarios and to help select solutions using a range of industry standard analysis techniques.

Opportunities for formative assessment exist for the assessment strategy used. Verbal feedback is given and all apprentices will engage with personalised tutorials setting SMART targets as part of the programme design.

### Assessment tasks:

**Examination (First Sit)**

Description: Time controlled assessment - pre-seen case study (3 hours)

Weighting: 50 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3

**Project (First Sit)**

Description: Workplace project (3000 words)

Weighting: 50 %

Final assessment: No

Group work: No

Learning outcomes tested: MO4, MO5, MO6, MO7

**Examination (Resit)**

Description: Time controlled assessment - pre-case study (3 hours)

Weighting: 50 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3

**Project (Resit)**

Description: Workplace project (3000 words)

Weighting: 50 %

Final assessment: No

Group work: No

Learning outcomes tested: MO4, MO5, MO6, MO7

**Part 5: Contributes towards**

This module contributes towards the following programmes of study:

Digital and Technology Solutions (Business Analyst) {Apprenticeship-UCW}

[Sep][FT][UCW][4yrs] BSc (Hons) 2020-21