



## MODULE SPECIFICATION

Part 1: Information			
Module Title	Business Analysis and Decision-Making		
Module Code	UFCFGN-30-3	Level	Level 6
For implementation from	2018-19		
UWE Credit Rating	30	ECTS Credit Rating	15
Faculty	Faculty of Environment & Technology	Field	Computer Science and Creative Technologies
Department	FET Dept of Computer Sci & Creative Tech		
Contributes towards			
Module type:	Standard		
Pre-requisites	None		
Excluded Combinations	None		
Co- requisites	None		
Module Entry requirements	None		

Part 2: Description
<p><b>Overview:</b> 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.</p> <p><b>Educational Aims:</b> See Learning Outcomes</p> <p><b>Outline Syllabus:</b> Structured processes for identifying, defining and analysing unstructured business problems, their root cause and impact</p> <p>Modelling and analysis techniques to describe business problem scenarios and to help select solutions using a range of industry standard analysis techniques</p> <p>Prioritise business requirements for an IT system using 'industry best practice' methods</p>

## STUDENT AND ACADEMIC SERVICES

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

**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.

## STUDENT AND ACADEMIC SERVICES

### Part 3: Assessment

This module is assessed by a combination of techniques: time controlled assessment (3 hours) and a workplace project (3,000 words).

#### Component A – 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 TCA.

Component B – 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.

First Sit Components	Final Assessment	Element weighting	Description
Project - Component B		50 %	Workplace project (3000 words)
Examination - Component A	✓	50 %	Time controlled assessment - pre-seen case study (3 hours)
Resit Components	Final Assessment	Element weighting	Description
Project - Component B		50 %	Workplace project (3000 words)
Examination - Component A	✓	50 %	Time controlled assessment - pre-case study (3 hours)

STUDENT AND ACADEMIC SERVICES

<b>Part 4: Teaching and Learning Methods</b>		
Learning Outcomes	On successful completion of this module students will be able to:	
	<b>Module Learning Outcomes</b>	
	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
Contact Hours	<b>Contact Hours</b>	
	<b>Independent Study Hours:</b>	
	Independent study/self-guided study	228
	<b>Total Independent Study Hours:</b>	
	228	
	<b>Scheduled Learning and Teaching Hours:</b>	
	Face-to-face learning	72
	<b>Total Scheduled Learning and Teaching Hours:</b>	
	72	
<b>Hours to be allocated</b>		300
<b>Allocated Hours</b>		300
Reading List	<p>The reading list for this module can be accessed via the following link:</p> <p><a href="https://uwe.rl.talis.com/index.html">https://uwe.rl.talis.com/index.html</a></p>	