

## Programme Specification 201920

### 6044 BSc Business Analytics

This specification provides a concise summary of the main features of the programme and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if s/he takes full advantage of the learning opportunities that are provided.

Awarding Institution	University of Southampton
Teaching Institution	University of Southampton
Mode of study	Full time
Duration in years	3 full years (34 months) following standard progression for a full time student
Accreditation details	CIMA (Chartered Institute of Management Accountants) Association to Advance Collegiate School of Business (AACSB)
Final Award	Bachelor of Science (Honours)
Name of award	Business Analytics
Interim Exit awards	Certificate of Higher Education and Diploma of Higher Education
FHEQ level of final award	6
UCAS code	N100
QAA Subject Benchmark or other external reference	Business and Management
Programme Lead	Max Chipulu
Date specification was written	27/06/2014
Date Programme was validated	02/12/2014
Date Specification last updated	31/07/2018

### Programme overview

#### Brief outline of the programme

This course is part of Southampton Business School's undergraduate management portfolio. The portfolio is a collection of dynamic and innovative programmes which seek to provide you with theoretical and practical insight into past, current and future business issues. The portfolio engages with contemporary global issues and provides you with the opportunity to develop your business skills to ensure you are well equipped to enter industry, and ultimately lead organisations in the future. The portfolio's programmes share a common year to introduce you to core skills, analytical techniques, theories and perspectives. You then have the flexibility to select one of our leading programmes and to specialise in subjects of your interest which will enable you to follow your chosen career path.

Business Analytics is a relatively new discipline that helps organizations make sense of the huge amount of data that is being collected through a variety of sources such as web and social media. It uses a combination of mathematics and data analysis techniques to uncover information in the data, enabling organizations to improve their operational efficiency and customize their products, services, and their prices based on customers' priorities. Hence, if you like maths, interested in web and social media and would like to know how they are used for creating value, this is the right program for you. Many companies have already felt the need for business analytics and are recruiting people with the right skills, and many more are expected to follow. As such there are high employability prospects for graduates.

This three year program will train you in using traditional and contemporary data management systems, in particular the widely used analytics package SAS, and give you the mathematical skills needed for decision making informed by data analysis. You will also learn a range of qualitative skills required for successful problem formulation and problem solving as well as strategy implementation. Due to the strong links that the management science group has with private and public organizations, the modules have strong practical focus, often using real case studies and databases.

Your contact hours will vary depending on your module/option choices. Full information about contact hours is provided in individual module profiles.

The programme is accredited by the Association to Advance Collegiate Schools of Business (AACSB), which is an internationally recognised award of excellence in business education.

## Special features of the programme

Students will be prepared to take the SAS Base programming certification exam. Some modules will involve visiting speakers, where possible, and the opportunity to complete assessment tasks which have been developed with businesses and other organisations.

## Learning and teaching

A range of teaching and learning methods will be utilised to ensure that the learning outcomes have been achieved. Learning activities will include:

- Lectures and Tutorials;
- Group and Individual Assignments;
- Computer Labs;
- Class debates and discussions;
- Private Study;
- Use of online materials;
- Assignments involving 'real world' organisations;
- Simulations.

Class activities and problem solving exercises will enable you to gain feedback about your knowledge and understanding, prior to any formal summative assessments. Learning activities which involve working with real organisations will enable you to see how business analytics operates in a commercial context, while providing the opportunity to practice workplace relevant skills. In addition, all students have the opportunity to contact academics during term time to discuss matters relating to the learning, teaching and assessment on a module.

## Assessment

A range of assessment methods are used on this programme to enable you to demonstrate your achievement of the intended learning outcomes, including:

- Individual written examinations;
- Individual written assessments, including reports and essays;
- Group work exercises, presentations, web-based material and reports;
- Business simulations;
- Reflective reports.

The final year includes a double-weighted project, where you will have the opportunity to apply the skills you learnt during the program on a real dataset. As a guide, it is aimed that written coursework will be returned within 3 working weeks.

## Educational aims of the programme

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The aims of the programme are to:

- Provide you with a detailed understanding of the key concepts and theoretical frameworks in business in general, and in business analytics in particular;
- Raise awareness of the latest trends in business in general, and in business analytics in particular;
- Provide you with insight into how business analytics operates in 'real world' contexts;
- Provide you with the precise set of skills and capabilities needed by industry and academia for exploiting data opportunities;
- Provide you with the opportunity to develop confidence and skills in managing, analysing, interpreting, and communicating large datasets;
- Offer a fresh and stimulating approach to mathematical decision making through integration with data and data analysis;
- Develop key business skills which are important in developing your career.

## Programme learning outcomes

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### A. Knowledge and understanding

Having successfully completed this programme you will be able to demonstrate knowledge and understanding of:

- A1. Key theoretical and contemporary issues surrounding business in general and business analytics in particular;  
A2. Knowledge and critical understanding of investigative techniques in business analytics;

**A3.** The value of data to businesses, consumers and the economy as a whole, and the major mechanisms through which value is created from data;

**A4.** Different types of business analytics techniques and their roles in releasing the value of data.

### **Teaching and learning methods**

A range of teaching and learning methods suitable for building a well-structured knowledge base will be used. A1 will be achieved through a series of lectures and case studies, while A2 and A3 will be met through discussions, simulations, seminars, private study, individual and group exercises. Both real and illustrative case studies will be used to motivate topics, and facilitate learning and discussion. There will be high emphasis on formative feedback and student discussion assisted by education technology. A4 will be achieved through a mixture of online multimedia material, seminars and principally an individual final year project.

### **Assessment methods**

Knowledge and understanding, strategies, concepts and management practices are assessed in each module. A1 - A3 will be assessed through a combination of coursework, presentations, and examinations. Some modules have a group work element where marks are awarded as a group, but the larger percentage, or the entirety of a module, will be assessed by an individual's work. A4 is assessed primarily through an individual research project. Feedback is also provided throughout the programme based upon student contribution to activities through practical exercises and discussions in class.

## **B. Subject specific intellectual and research skills**

Having successfully completed this programme you will be able to:

- B1.** Manipulate and analyse large datasets using traditional as well as contemporary database management systems;
- B2.** Apply descriptive, predictive, and prescriptive analytics techniques on structured, semi-structured and unstructured data to extract patterns, forecast trends, run what-if scenarios, and determine the optimal course of action;
- B3.** Demonstrate a basic working knowledge of technologies specifically designed for big data;
- B4.** Visualize and communicate the results of your analysis in an efficient and effective way.
- B5.** Demonstrate how new concepts are applicable in an international business environment.
- B6.** Demonstrate practices that are ethical, responsible and sustainable.

### **Teaching and learning methods**

You are expected to attain a 'performative' level of understanding, i.e. be able to show effective judgement/creativity in selection/development of an appropriate model for a real situation and demonstrate a high level of skills in data handling and analysis. As such learning/teaching methods used will mainly include case-based and problem-based learning, where learning starts from a problem or a series of problems presented by the lecturer, and in going about solving the problems you will learn the knowledge, facts and procedures that are needed. The cases and problems will be accompanied by relevant datasets, and there will be plenty of opportunities for students to get feedback from their lecturers as well as peers.

### **Assessment methods**

Your ability to apply the intellectual and research skills that you have learnt is assessed by coursework or examination. B1-B6 will be assessed by a mix of examinations, presentations, essays, coursework assignments, and reports. You will receive feedback on your progress throughout the programme based upon your contribution to in-class activities and formative exercises. The final project is designed to test your ability to conduct an independent study on creating value using various business analytics techniques from a dataset provided by your supervisor. This important assessment addresses B1-B6 collectively.

## **C. Transferable and generic skills**

Having successfully completed this programme you will be able to:

- C1.** Collect and critically evaluate qualitative and quantitative information;
- C2.** Communicate ideas and arguments fluently and effectively in a variety of written and/or spoken formats;
- C3.** Work effectively as an individual and/or in groups and recognise problems associated with group working;
- C4.** Use library and other resources effectively, and apply bibliographical skills.

### **Teaching and learning methods**

Most modules develop some combination of the above skills through lectures, individual and group coursework assignments, workshops, case studies or reading. C1 will be addressed primarily through coursework assignments and the final year project, in addition to in-class tasks where students will work with case study material which consists of different sources of data, as part of formative exercises. C2 and C3 will be achieved through individual and group exercises. This may include report writing, essays, presentations, or simulations. C4 will be met through the production of written group or individual work for summative assessment.

### **Assessment methods**

The final project is the most appropriate method for testing transferrable and generic skills. The projects will be data driven and involves student working on a particular dataset to find business problems they think are of interest and formulate their own solutions. Apart from addressing the above ILOs, this would also allow students to show some level of creativity in both formulating and solving the problem.

## Graduate attributes

Graduate Attributes are the personal qualities, skills and understanding you can develop during your studies. They include but extend beyond your knowledge of an academic discipline and its technical proficiencies. Graduate Attributes are important because they equip you for the challenge of contributing to your chosen profession and may enable you to take a leading role in shaping the society in which you live.

We offer you the opportunity to develop these attributes through your successful engagement with the learning and teaching of your programme and your active participation in University life. The skills, knowledge and personal qualities that underpin the Graduate Attributes are supported by your discipline. As such, each attribute is enriched, made distinct and expressed through the variety of learning experiences you will experience. Your development of Graduate Attributes presumes basic competencies on entry to the University.

The following table shows the mapping between the University's Graduate Attributes, and a key subset of the core and compulsory modules that form the degree programme

Code	Module Title	Global Citizenship	Ethical Leadership	Research and Inquiry	Academic	Communication Skills	Reflective Learner
MANG1020	Ideas that Shaped the Business World 1	•			•		•
MANG1003	Introduction to Management	•	•		•		•
MANG1021	Ideas that Shaped the Business World 2	•	•		•		•
MANG1022	Technologies that Shaped the Business World	•			•		•
MANG1017	Skills for Business	•	•			•	
MANG1019	Foundations of Business Analytics			•	•	•	•
MANG2062	SAS Base Programming				•	•	•
MANG2006	Principles and Practice of Management Science	•	•	•	•		•
MANG2065	Business Forecasting			•	•	•	•
MANG2002	Business Simulation			•	•	•	•
MANG3010	Knowledge Management	•			•		•
MANG3056	Data Mining for Marketing	•	•		•	•	•
MANG3013	Optimization				•		•
MANG3073	Analytics in Action	•			•	•	•
MANG3074	Final Project	•	•	•	•	•	•

## Programme structure

### Typical course content

This course structure is consistent with other undergraduate programmes in the pathway portfolio. You will study eight modules in each year of the degree, divided equally between the semesters. In the first year of your study (Part 1), you will study a common year to gain with a basic overview of analytical techniques, skills, theory and knowledge relevant to a business degree. In the second year (Part 2), the programme will provide intermediate-level training in SAS, the widely used analytic software packages in the industry, which will be used for performing computations and analysis in the majority of the courses that follow. You will also learn forecasting methods and simulation techniques. You will be able to choose two optional modules in each semester of Part 2 to broaden your horizons. Basics of data mining and knowledge management as well as some advanced topics in analytics and optimization will be taught in the third year (Part 3), along with a double-weighted project. The project will run in a more structured way compared to other dissertations as it will be data-driven and involves applying the knowledge and skills developed on the program. You can also take one optional module in each semester of Part 3.

There is also the opportunity for you to choose modules from the University's Curriculum Innovation initiative, where you can undertake some interdisciplinary modules from other Faculties and Schools. You also have the opportunity to choose selected options from other Schools, which are relevant to the degree programme, subject to availability.

The information in this programme specification may change in minor ways from year to year; it is accurate at the time of writing. Some of these modules are subject to pre-requisites and exclusions that, for brevity, are not given here.

The module requirements for each programme are shown for each Part below; modules are either core (must be taken and passed), compulsory (must be taken), or optional (may be taken).

Information about pre and co-requisites is included in individual module profiles.

## Programme details

### Part 1

In your first year (Part 1), you will take 60 ECTS (120 CATS) at FHEQ Level 4, 30 ECTS (60 CATS) in each semester as shown below. Note that six of the Part 1 modules are core and must be passed in order to progress whilst MANG1025 Financial Accounting 1 for Business and MANG1017 Key Skills for Business are compulsory and hence can be compensated.

### Part 2

In your second year (Part 2), you will take 60 ECTS (120 CATS) at FHEQ Level 5, 30 ECTS (60 CATS) in each semester. Two modules in Part 2 are compulsory (15 ECTS/30 CATS) and two are core (15 ECTS/30 CATS). The remaining (30 ECTS/60 CATS) can be taken from a list of optional modules offered in the Business School or Electronics and Computer Science. You should choose 15 ECTS (30 CATS) of options per Semester. Each Semester 7.5 ECTS (15 CATS) of option modules may include modules provided by the Curriculum Innovation Project [Curriculum Innovation Project](#) or a Language module.

### Part 3

A compulsory Final Project module runs across Semester 1 and 2 (15 ECTS/30 CATS). You will also take another 30 ECTS (60 CATS) of compulsory modules in Part 3. In addition, you will be able to select 15 ECTS (30 CATS) of optional modules in the final year.

## Summary structure of the programme

See Appendix 3

## Assessment mapping

See Appendix 2

## Additional costs

Students are responsible for meeting the cost of essential textbooks, and of producing such essays, assignments, laboratory reports and dissertations as are required to fulfil the academic requirements for each programme of study. Costs that students registered for this programme typically also have to pay for are included in **Appendix 4**

## Progression requirements

The programme follows the University's regulations for [Progression, Determination and Classification of Results: Undergraduate and Integrated Masters Programmes](#) as set out in the University Calendar.

## Intermediate exit points

You will be eligible for an interim exit award if you complete part of the programme but not all of it, as follows:

Qualification	Minimum overall credit in ECTS/CATS	Minimum ECTS/CATS required at level of award
Diploma of Higher Education	at least 120/240	45/90
Certificate of Higher Education	at least 60/120	45/90
Ordinary degree	at least 150/300	30/60
Bachelor's degrees [eg: BA (Hons), BSc (Hons), BEng (Hons)] ( <i>for integrated masters' programmes</i> )	at least 180/360	45/90

## Support for student learning

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There are facilities and services to support your learning some of which are accessible to students across the University and some of which will be geared more particularly to students in your particular Faculty or discipline area.

The University provides:

- library resources, including e-books, on-line journals and databases, which are comprehensive and up-to-date; together with assistance from Library staff to enable you to make the best use of these resources
- high speed access to online electronic learning resources on the Internet from dedicated PC Workstations onsite and from your own devices; laptops, smartphones and tablet PCs via the Eduroam wireless network. There is a wide range of application software available from the Student Public Workstations.
- computer accounts which will connect you to a number of learning technologies for example, the Blackboard virtual learning environment (which facilitates online learning and access to specific learning resources)
- standard ICT tools such as Email, secure filestore and calendars.
- access to key information through the MySouthampton Student Mobile Portal which delivers timetables, Module information, Locations, Tutor details, Library account, bus timetables etc. while you are on the move.
- IT support through a comprehensive website, telephone and online ticketed support and a dedicated helpdesk in the Hartley Library.
- Enabling Services offering support services and resources via a triage model to access crisis management, mental health support and counselling.
- assessment and support (including specialist IT support) facilities if you have a disability, long term health problem or Specific Learning Difficulty (e.g. dyslexia)
- the Student Services Centre (SSC) to assist you with a range of general enquiries including financial matters, accommodation, exams, graduation, student visas, ID cards
- Career Destinations, advising on job search, applications, interviews, paid work, volunteering and internship opportunities and getting the most out of your extra-curricular activities alongside your degree programme when writing your CV
- Other support that includes health services (GPs), chaplaincy (for all faiths) and 'out of hours' support for students in Halls (18.00-08.00)
- A Centre for Language Study, providing assistance in the development of English language and study skills for non-native speakers.

The Union Southampton provides

- an academic student representation system, consisting of Course Representatives, Academic Presidents, Faculty Officers and the Vice-President Education; Union Southampton provides training and support for all these representatives, whose role is to represent students' views to the University.
- opportunities for extracurricular activities and volunteering
- an Advice Centre offering free and confidential advice including support if you need to make an academic appeal
- Support for student peer-to-peer groups, such as Nightline.

Associated with your programme you will be able to access:

- A dedicated study skills development induction programme for new entrants in their first week, including a library tour.
- An Academic Personal Tutor
- Programme handbooks
- Module support material (increasingly in electronic form).

## Methods for evaluating the quality of teaching and learning

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You will have the opportunity to have your say on the quality of the programme in the following ways:

- Completing student evaluation surveys for each module of the programme
- Acting as a student representative on various committees, e.g. Staff: Student Liaison Committees, Faculty Programmes Committee OR providing comments to your student representative to feedback on your behalf.
- Serving as a student representative on Faculty Scrutiny Groups for programme validation
- Taking part in programme validation meetings by joining a panel of students to meet with the Faculty Scrutiny Group

The ways in which the quality of your programme is checked, both inside and outside the University, are:

- Regular module and programme reports which are monitored by the Faculty
- Programme validation, normally every five years.
- External examiners, who produce an annual report
- A national Research Assessment Exercise (our research activity contributes directly to the quality of your learning experience)

- Institutional Review by the Quality Assurance Agency

## Career opportunities

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The career opportunities are wide and varied in this discipline, covering almost any organization that is investing in data and data usage. In addition, many consultancy companies as well as government agencies need competent business analysts. Considering the shortage of skilled workers in the area of business analysts both in the UK and internationally, it is expected that students will be attracted by the industry soon after the graduation.

## External Examiner(s) for the programme

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**Name:** Dr Svetlana Warhurst      **Institution:** Essex University

Students must not contact External Examiner(s) directly, and external examiners have been advised to refer any such communications back to the University. Students should raise any general queries about the assessment and examination process for the programme with their Course Representative, for consideration through Staff: Student Liaison Committee in the first instance, and Student representatives on Staff: Student Liaison Committees will have the opportunity to consider external examiners' reports as part of the University's quality assurance process.

External examiners do not have a direct role in determining results for individual students, and students wishing to discuss their own performance in assessment should contact their personal tutor in the first instance.

**Please note:** This specification provides a concise summary of the main features of the programme and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if s/he takes full advantage of the learning opportunities that are provided. More detailed information can be found in the programme handbook (or other appropriate guide) or online at <https://www.sbs.ac.uk/>

As a research-led University, we undertake a continuous review of our programmes to ensure quality enhancement and to manage our resources. As a result, this programme may be revised during a student's period of registration; however, any revision will be balanced against the requirement that the student should receive the educational service expected. Please read our [Disclaimer](#) to see why, when and how changes may be made to a student's programme.

Programmes and major changes to programmes are approved through the University's programme validation process which is described in the University's Quality handbook.

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### Revision History

1. Validated Dec 2014
2. Transferred to new template 21/09/15
3. Transferred to new template 24/02/17
4. Updated MANG1019 assessment to 'Computer based test' 30/07/18
5. Removed 'individual' from MANG1021 30/07/18 (Faculty restructure)
6. Removed 'individual' from MANG1022 30/07/18 (Faculty restructure)
7. Removed 'individual' from MANG3010 30/07/18 (Faculty restructure)
8. Replaced MANG1018 with MANG1003 following Faculty Review Group 18/07/2018

## Appendix 1:

### 6044 BSc Business Analytics learning outcomes document

Core = (Cr), Compulsory = (Cm), Optional Core = (OCr)

Module Code	Module Title	Knowledge and Understanding				Subject Specific Intellectual Skills				Transferable/Key Skills			
		A1	A2	A3	A4	B1	B2	B3	B 4	C1	C2	C3	C4
MANG1025	Financial Accounting 1 for Business (Cm)	•		•			•		•	•	•	•	•
MANG1020	Ideas that Shaped the Business World 1 (Cr)	•	•			•	•	•		•	•	•	•
MANG1003	Introduction to Management	•	•			•	•	•		•	•	•	•
MANG1019	Foundations of Business Analytics (OCr)	•	•	•	•		•		•	•	•	•	•
MANG1007	Management Analysis (OCr)	•	•	•	•		•		•	•	•	•	•
MANG1002	Management Accounting 1 (Cr)	•		•			•		•	•	•	•	•
MANG1021	Ideas that Shaped the Business World 2 (Cr)	•	•			•	•	•		•	•	•	•
MANG1022	Technologies that Shaped the Business World (Cr)	•	•			•	•	•		•	•	•	•
MANG1017	Key Skills for Business (Cm)	•	•							•	•	•	•
MANG2062	SAS Base Programming (Cr)				•	•	•	•	•	•	•	•	•
MANG2006	Principles and Practice of Management Science (Cm)	•	•	•	•		•		•	•	•	•	•
MANG2065	Business Forecasting (Cr)			•	•	•	•		•	•	•	•	•
MANG2002	Business Simulation (Cm)			•	•		•		•		•	•	•
MANG3010	Knowledge Management (Cm)	•	•				•			•	•	•	•
MANG3056	Data Mining for Marketing (Cm)			•	•	•	•	•	•	•	•	•	•
MANG3013	Optimization (Cm)			•	•		•		•	•	•	•	•
MANG3073	Analytics in Action (Cm)		•	•	•	•	•	•	•	•	•	•	•
MANG3074	Final Project (Cm)	•	•	•	•	•	•	•	•	•	•	•	•

## Appendix 2

### 6044 BSc Business Analytics assessment mapping document

Module Code	Module Title	Semester	Assessment 1	Assessment 2
MANG1025	Financial Accounting 1 for Business (Cm)	1	Multiple Choice Test (MCT) 20%	Exam (2 hours) 80%
MANG1020	Ideas that Shaped the Business World 1 (Cr)	1	Article (1,000 words) 40%	Critical Reflection (1,500 words) 60%
MANG1003	Introduction to Management (Cr)	1	Group Presentation (15 minutes) 30%	Essay (1,500 words) 70%
MANG1019	Foundations of Business Analytics (OCr)	1	Computer based test - 20%	Exam (2 hours) 80%
MANG1007	Management Analysis (OCr)	1	Online test - 20%	Exam (2 hours) 80%
MANG1002	Management Accounting 1 (Cr)	2	Multiple Choice Test (MCT) 30%	Exam (2 hours) 70%
MANG1021	Ideas that Shaped the Business World 2 (Cr)	2	Assignment (1,000 words) 40%	Assignment (1,500 words) 60%
MANG1022	Technologies that Shaped the Business World (Cr)	2	Assignment (1,000 words) 30%	Exam (2 hours) 70%
MANG1017	Key Skills for Business (Cm)	2	Group Report (1,500 words) 20%	Report (1,500 words) 80%
MANG2062	SAS Base Programming (Cr)	1	Basic SAS Program 20%	SAS Data Analysis Project 80%
MANG2006	Principles and Practice of Management Science (Cm)	1	Report (2,000 Words) 30%	Exam (2 hours) 70%
MANG2065	Business Forecasting (Cr)	2	Report (2,500 words plus computer models) 100%	n/a
MANG2002	Business Simulation (Cm)	2	Practical exercises in @Risk and Simul8, Vensim and some discussion) 40%	Exam (2 hours) 60%
MANG3010	Knowledge Management (Cm)	1	Assignment (1,500 words) 40%	Exam (2 hours) 60%
MANG3056	Data Mining for Marketing (Cm)	1	Project (3,000 words) - 100%	n/a
MANG3013	Optimization (Cm)	2	Group Assignment (2,000 words) 40%	Exam (2 hours) 60%
MANG3073	Analytics in Action (Cm)	2	Report (1,500 words) 40%	Report (2,000 words) 60%
MANG3074	Final Project (Cm)	FAY	Report (10,000 words) 100%	

## Appendix 3

### 6044 BSc Business Analytics programme structure

Where optional modules have been specified, the following is an indicative list of available optional modules, which are subject to change each academic year. Please note in some instances modules have limited spaces available.

Part 1			
Semester 1		Semester 2	
Core Modules (must take and pass)	ECTS (CATS)	Core Modules (must take and pass)	ECTS (CATS)
MANG1020 Ideas that Shaped the Business World 1	7.5(15)	MANG1002 Management Accounting 1	7.5(15)
MANG1003 Introduction to Management	7.5(15)	MANG1021 Ideas that Shaped the Business World 2	7.5(15)
Either MANG1019 Foundations of Business Analytics (A level Maths or confident in Maths) OR MANG1007 Management Analysis (if no A level Maths)	7.5(15)	MANG1022 Technologies that Shaped the Business World	7.5(15)
Compulsory Modules (must take)	ECTS (CATS)	Compulsory Modules (must take)	ECTS (CATS)
MANG1025 Financial Accounting 1 for Business	7.5(15)	MANG1017 Key Skills for Business	7.5(15)

Part 2			
Semester 1		Semester 2	
Core Modules (must take and pass)	ECTS (CATS)	Core Modules (must take and pass)	ECTS (CATS)
MANG2062 SAS Base Programming ( <i>Req MANG1022 and [MANG1019 or MANG1007]</i> )	7.5(15)	MANG2065 Business Forecasting ( <i>Req MANG2062</i> )	7.5(15)
Compulsory Modules (must take)	ECTS (CATS)	Compulsory Modules (must take)	ECTS (CATS)
MANG2006 Principles and Practice of Management Science ( <i>Req MANG1019 or Maths/MANG1007</i> )	7.5(15)	MANG2002 Business Simulation ( <i>Req MANG2006</i> )	7.5(15)
Option Modules Choose 15ECTS (30CATS)	ECTS (CATS)	Option Modules Choose 15ECTS (30CATS)	ECTS (CATS)
MANG2015 Financial Management - Maths ( <i>Req (MANG1007 or MANG1019) &amp; MANG1020 &amp; MANG1021</i> )	7.5(15)	MANG2007 Problem Structuring Methods ( <i>Req MANG1003 or MANG1020 &amp; MANG1021</i> )	7.5(15)
MANG2058 Digital Business Models	7.5(15)	MANG2021 Operations Management	7.5(15)
MANG2071 Business Analytics Programming (also available in Part 3 – can only be taken once)	7.5(15)	ENTR2004 Innovation, Technology, and the Environment ( <i>Req MANG1003 &amp; MANG1022</i> )	7.5(15)
MANG2073 Digital Marketing for Business	7.5 (15)	MANG2066 Principles of Audit and Taxation ( <i>Req MANG1001 or MANG1025</i> )	7.5(15)
		MANG2077 Crisis Management	7.5 (15)
LANGXXXX or UOSMXXXX	7.5(15)	MANG2069 Making Successful Decisions	7.5(15)
		LANGXXXX or UOSMXXXX	7.5(15)

Part 3			
Semester 1		Semester 2	
Compulsory Modules (must take)	ECTS (CATS)	Compulsory Modules (must take)	ECTS (CATS)
MANG3074 Final Project			15(30)
MANG3010 Knowledge Management	7.5(15)	MANG3013 Optimization ( <i>Req MANG1019 or Maths or MANG1007</i> )	7.5(15)
MANG3056 Data Mining for Marketing ( <i>Req MANG1019 or MANG1007</i> )	7.5(15)	MANG3073 Analytics in Action ( <i>Req MANG3056</i> )	7.5(15)
Option Modules Choose 7.5ECTS (15CATS)	ECTS (CATS)	Option Modules Choose 7.5ECTS (15CATS)	ECTS (CATS)
MANG3046 Managing Innovation	7.5(15)	MANG3032 Risk Management	7.5(15)
MANG3053 Customer Insight ( <i>Req MANG2039 or taken in conjunction with MANG3054</i> )	7.5(15)	MANG3034 Project Management	7.5(15)
MANG3072 Technological Innovation ( <i>Req ENTR2004</i> )	7.5(15)	MANG3066 Managing High Growth Business	7.5(15)
MANG2071 Business Analytics Programming (also available in Part 2 – can only be taken once)	7.5(15)	MANG3075 Future Horizons for Enterprise	7.5(15)
MANG3054 Marketing in the Digital Age ( <i>Req MANG2073 or MANG2070</i> )	7.5(15)	MANG3078 Strategic Operations Management	7.5 (15)

## Appendix 4

### 6044 BSc Business Analytics additional costs

Students are responsible for meeting the cost of essential textbooks, and of producing such essays, assignments, laboratory reports and dissertations as are required to fulfil the academic requirements for each programme of study. In addition to this, students registered for this programme typically also have to pay for the items listed in the table below

In some cases you will be able to choose modules (which may have different costs associated with that module) which will change the overall cost of a programme to you. Details of such costs will be listed in the Module Profile. Please also ensure you read the section on additional costs in the University's Fees, Charges and Expenses Regulations in the University Calendar available at [www.calendar.soton.ac.uk](http://www.calendar.soton.ac.uk)

Main Item	Sub-section	PROGRAMME SPECIFIC COSTS
<b>Approved Calculators</b>		Candidates may use calculators in the examination room only as specified by the University and as permitted by the rubric of individual examination papers. The University approved models are Casio FX-570 and Casio FX-85GT Plus. These may be purchased from any source and no longer need to carry the University logo.
<b>Stationery</b>		You will be expected to provide your own day-to-day stationary items, e.g. pens, pencils, notebooks, etc). Any specialist stationery items will be specified under the Additional Costs tab of the relevant module profile.
<b>Textbooks</b>		Where a module specifies core texts these should generally be available on the reserve list in the library. However due to demand, students may prefer to buy their own copies. These can be purchased from any source.  Some modules suggest reading texts as <b>optional</b> background reading. The library may hold copies of such texts, or alternatively you may wish to purchase your own copies. Although not essential reading, you may benefit from the additional reading materials for the module.
<b>IT</b>	Software Licenses	Some modules will require you to learn and use a particular computer Software. The software packages will be available in selected university computer labs. The student version of some of these packages may also be available to download free of charge from the iSolutions website.
<b>Printing and Photocopying Costs</b>		In most cases, written coursework such as essays; projects; dissertations are submitted online and by hard copy. The costs of printing a hard copy for submission of such coursework will be the responsibility of the student.  The cost of photocopying will also be the responsibility of the student.  <a href="https://www.southampton.ac.uk/isolutions/students/printing">https://www.southampton.ac.uk/isolutions/students/printing</a>
<b>Optional Visits</b>		Some modules may include optional visits. You will normally be expected to cover the cost of travel and admission, unless otherwise specified in the module profile.

Appendix 5

6044 BSc Business Analytics accreditation details

<b>Date approv</b>	<b>Start Date</b>	<b>End Date</b>	<b>Type of PSRB</b>	<b>BODY</b>	<b>PROF PAPER</b>	<b>AWARDED ON</b>
07/07/2015	2018	2020	Accountancy	CIMA	BA1 Fundamentals of Business Economics	Passing all Core modules
07/07/2015	2018	2020	Accountancy	CIMA	BA2 Fundamentals of Management Accounting	Passing all Core modules
07/07/2015	2018	2020	Accountancy	CIMA	BA3 Fundamentals of Financial Accounting	Passing all Core modules
07/07/2015	2018	2020	Accountancy	CIMA	BA4 Fundamentals of Ethics, Corporate Governance and Business Law	Passing all Core modules
07/07/2015	2018	2020	Accountancy	CIMA	E1 Organisational Management	Passing all Core modules