Addendum to the Programme Specification

8576 MSci Biomedical Sciences

This Addendum has been produced to highlight the key changes made to the existing Programme Specification as a result of the University's response to the Covid-19 Pandemic. You should read it in conjunction with the Programme Specification

Programme Specification for entry in 2020-21

University level information

In view of COVID-19, the University has had to make changes to some elements of programme delivery for 2020-21. These changes have included the method of delivery, such as face-to-face and online, and the number of modules available.

The University aims to provide as much of a face-to-face component to your education as prevailing conditions at the time allow, combined with its new blended approach that will develop active independent and group online learning.

As the COVID-19 pandemic develops, the University's response to this and other issues may likewise need to evolve. The University will consult with student representatives as necessary and appropriate and will communicate changes to you as soon as practicable so that you have the information you need to understand how a change may impact you and what steps you need to take next. The University remains committed to supporting you as you learn.

Programme Information

In light of Covid-19, there will be some changes to how some group work tasks will be organised. All modules with practical components or group work will be scheduled to allow for smaller groups, and appropriate social distancing protocols will be in place when using facilities.

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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 that, in some instances, modules have limited spaces available

Programme	MSci Biomedical Sciences - 8576
Term	2020-2021 Academic Session (202021)
Campus	Southampton campuses
Faculty	Environmental and Life Sci
Degree	Master of Science (Integrated)
Level of Study	Undergraduate
Credit Requirement	480
Minors	None

Part	Credit required
MSci Biomed Sciences Part 1	120
MSci Biomed Sciences Part 2	120
MSci Biomed Sciences Part 3	120
MSci Biomed Sciences Part 4	120

Programme:	MSci Biomedical Sciences
Term:	2020-2021 Academic Session (202021)
Area title:	MSci Biomed Sciences **Part 1**

Compulsory Modules

You must complete the following modules:

Module	Module Title	Credit	Core?	Semester / Term
BIOL 1024	Fundamentals of Biochemistry	30	No	Full Academic Year
BIOL 1025	Fundamentals of Cell Biology & Physiology	30	No	Full Academic Year
BIOL 1026	Chemistry of Life	30	No	Full Academic Year
BIOL 1027	The Human Genome and Disease	15	No	Semester 2

BIOL 1030	How to Think Like a Scientist	15	No	Full Academic Year

Programme:	MSci Biomedical Sciences
Term:	2020-2021 Academic Session (202021)
Area title:	MSci Biomed Sciences **Part 2**

Compulsory Modules

You must complete the following modules:

Module	Module Title	Credit	Core?	Semester / Term
BIOL 2010	Flow of Genetic Information	15	No	Semester 1
BIOL 2022	Immunology ,Infection & Inflammation	15	No	Semester 2
BIOL 2056	Cell Biology	15	No	Semester 1

Optional Modules

You must choose from the following modules:

Optional / Compulsory Modules

Select one of the following modules.

Please note Pharmacology can be taken as a 30 credit (full year) or a 15 credit (semester 1) version. You should take BIOL2048 (15 credits) OR BIOL2049 (30 credits).

Should a student choose to not continue with the 30 credit module into semester 2 (BIOL2049) they will be awarded the end of semester 1 against the 15 credit version. An additional Semester 2 module will need to be selected to ensure you have a balance of 120 credits overall for part 2.

BIOL 2048	Principles of Pharmacology	15	Semester 1
BIOL 2049	Pharmacology	30	Full Academic Year

Optional Modules

Select 30 - 60 credits from the following options. Please ensure you select an even split of credits overall by semester including your compulsory modules.

BIOL 2012	Exploring Proteins: Structure and Function	15	Semester 2
BIOL 2013	Bioinformatics	15	Semester 1
BIOL 2044	Medical Microbiology	15	Semester 2
BIOL 2045	Vertebrate Development	15	Semester 2
BIOL 2051	Principles of Neuroscience	15	Semester 1
BIOL 2052	Neuroscience	30	Full Academic Year

Optional Modules Part 2

Choose up to one optional module (0 - 15 credits) from below:

BIOL 2001	Evolution	15	Semester 1
BIOL 2004	Pure and Applied Population Ecology	15	Semester 1
BIOL 2007	Plant Development and Function	15	Semester 2
CHEM 1047	Mathematical Methods in Chemistry I	15	Semester 1
CHEM 2024	Mathematical Methods in Chemistry II	15	Semester 2
GEOG 1004	A Global World	15	Semester 1
NATS 2002	Editing life: genetic engineering and synthetic biology	15	Semester 1
UOSM 2004	Global Health	15	Semester 1

Programme:	MSci Biomedical Sciences
Term:	2020-2021 Academic Session (202021)
Area title:	MSci Biomed Sciences **Part 3**

Optional Modules

You must choose from the following modules:

Module		Credit	Semester / Term
Independent Study Modules **Project module selection (which covers a total of 30 credits over the third year)** **Choose either one 30 credit or two 15 credit modules. These will become Core once selected.**			
BIOL3034	Laboratory research project	30	Full Academic Year
BIOL3058	Bioscience Business	30	Full Academic Year
BIOL3059	Bioscience Education	30	Full Academic Year
BIOL3061	Field research project	30	Full Academic Year
BIOL3069	In-silico research project	30	Full Academic Year
BIOL3031	Literature-based research project	15	Semester 1
BIOL3032	Literature-based research project	15	Semester 2
BIOL3060	Science communication	15	Semester 1
BIOL3062	Short field project (semester 1)	15	Semester 1
BIOL3066	Extended Science communication	15	Semester 2
BIOL3073	Bioethics Project	15	Semester 2

Optional Modules Part 1 **Select 5 to 6 modules (75 - 90 credits) from the following optional modules. Please ensure you select an even split of credits overall by semester including your compulsory modules.**			
BIOL 3001	Current Topics in Cell and Developmental Biology	15	Semester 1
BIOL 3006	Stem cell biology and bioengineering for regenerative	15	Semester 2
BIOL 3013	Molecular Recognition	15	Semester 2
BIOL 3014	Molecular Cell Biology	15	Semester 1
BIOL 3015	Regulation of Gene Expression	15	Semester 1

BIOL 3017	Molecular and Structural Basis of Disease	15	Semester 2
BIOL 3018	Molecular Pharmacology	15	Semester 2
BIOL 3020	Systems Neuroscience	15	Semester 2
BIOL 3021	Cellular and Molecular Neuroscience	15	Semester 1
BIOL 3022	Cell Signalling in Health and Disease	15	Semester 2
BIOL 3025	Neuropharmacology of CNS Disorders	15	Semester 1
BIOL 3037	Immunology	15	Semester 1
BIOL 3043	Cellular and Molecular Pathology	15	Semester 1
BIOL 3044	Development Origins of Health and Disease	15	Semester 2
BIOL 3048	Neurodegenerative Disease	15	Semester 2
BIOL 3052	Biomedical Technology	15	Semester 2
BIOL 3057	Biofilms and Microbial Communities	15	Semester 2
BIOL 3063	Bioinformatics and Systems Biology	15	Semester 1
BIOL 3064	Cancer Chromosome Biology	15	Semester 1
BIOL 3065	Biomedical Parasitology	15	Semester 2
BIOL 3067	Evolution and Development	15	Semester 1
Optional Modules Part 2 **Choose up to one optional module (0 - 15 credits) from below:**			
BIOL 2001	Evolution	15	Semester 1
BIOL 2004	Pure and Applied Population Ecology	15	Semester 1
BIOL 2007	Plant Development and Function	15	Semester 2
BIOL 3003	Plant Cell Biology	15	Semester 1
BIOL 3010	Evolution and Genetics	15	Semester 2
BIOL 3067	Evolution and Development	15	Semester 1
CHEM 2024	Mathematical Methods in Chemistry II	15	Semester 2
NATS 2002	Editing life: genetic engineering and synthetic biology	15	Semester 1
UOSM 2004	Global Health	15	Semester 1

Programme:	MSci Biomedical Sciences
Term:	2020-2021 Academic Session (202021)
Area title:	MSci Biomed Sciences **Part 4**

Compulsory Modules

You must complete the following modules:

Module	Module Title	Credit	Core?	Semester / Term
BIOL 6013	Advanced Research Project	60	No	Full Academic Year
BIOL 6053	Current Research	15	No	Full Academic Year

Optional Modules

You must choose from the following modules:

Module		Credit	Semester / Term
Optional Skills Modules **Select a minimum of 1 and maximum of 2 modules (15-30 credits) from the following skills options:**			
BIOL 6011	Advanced Library Project 1	15	Full Academic Year
BIOL 6052	Data Management and Generalised Linear Modelling for	15	Semester 1
BIOL 6074	Bioinformatics and Systems Biology	15	Semester 1
BIOL 6093	Skills in Structural Biology	15	Semester 1
BIOL 6095	Skills in Molecular Bioscience	15	Semester 1
BIOL 6097	Skills in Biological Optical Imaging	15	Semester 1
Optional Modules **Select a minimum of 1 and maximum of 2 modules (15-30 credits) from the following options:**			
BIOL 6021	Current Topics in Cell and Developmental Biology	15	Semester 1
BIOL 6022	Molecular Pharmacology	15	Semester 2
BIOL 6023	Cellular Signalling in Health and Disease	15	Semester 2
BIOL 6024	Selective Toxicity	15	Semester 1
BIOL 6025	Stem cell biology and bioengineering for regenerative	15	Semester 2
BIOL 6027	Regulation of Gene Expression	15	Semester 1
BIOL 6030	Molecular Cell Biology	15	Semester 1

BIOL 6032	Molecular Recognition	15	Semester 2
BIOL 6033	The Molecular and Structural Basis of Disease	15	Semester 2
BIOL 6034	Systems Neuroscience	15	Semester 2
BIOL 6035	Cellular and Molecular Neuroscience	15	Semester 1
BIOL 6036	Neuropharmacology of CNS Disorders	15	Semester 1
BIOL 6038	Immunology	15	Semester 1
BIOL 6039	Cellular and Molecular Pathology	15	Semester 1
BIOL 6040	Development Origins of Health and Disease	15	Semester 2
BIOL 6041	Biomedical Technology	15	Semester 2
BIOL 6045	Neurodegenerative Disease	15	Semester 2
BIOL 6071	Cancer Chromosome Biology	15	Semester 1
BIOL 6074	Bioinformatics and Systems Biology	15	Semester 1
BIOL 6076	Biomedical Parasitology	15	Semester 2