

Addendum to the Programme Specification

5229 MPhys with Industrial Placement

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 relevant Programme Specification from the year you started your programme.

[Programme Specification for entry in 2020-21](#)

[Programme Specification for entry in 2019-20](#)

[Programme Specification for entry in 2018-19](#)

[Programme Specification for entry in 2017-18](#)

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

Changes in Part I and II are not noted here as students will not be registered on this programme until Part III.

Any placement that was due to take place abroad will be converted to remote working, if possible. The number of placements available is also reduced due to companies adhering to social distancing rules.

The viva on the placement reports due to take place in January 2021 is likely to be carried out via an online meeting.

Where written examinations are unable to take place due to social distancing measures, an alternative form of assessment will be offered.

Programme Structure

Programme:	MPhys with Ind Placement - 5229
Term:	2020-2021 Academic Session (202021)
Area title:	5229-1 - MPhys with Ind Placement Pt 1

Compulsory Modules

You must complete the following modules:

Module	Module Title	Credit	Core?	Semester/Term
MATH 1006	Math Method for Phys Sci 1a	15	Yes	Semester 1
MATH 1007	Math Meths for PhysSci 1b	15	Yes	Semester 2
PHYS 1011	Wave, Light and Quanta	10	Yes	Semester 2
PHYS 1013	Energy and Matter	10	Yes	Semester 2
PHYS 1015	Motion and Relativity	10	Yes	Semester 1
PHYS 1017	Physics Skills 1	10	Yes	Semester 1
PHYS 1019	Physics Skills 2	10	Yes	Semester 2
PHYS 1022	Electricity and Magnetism	10	Yes	Semester 1
PHYS 1028	Personal Tutorial (Physics)	0	No	Full Academic Year
PHYS 1201	Phys Skills Prog & Data Analys	15	Yes	Semester 1

Optional Modules

You must choose from the following modules:

Module		Credit	Semester/Term
Rule 1	<p>Select 15 credits</p> <p>Select 15 credits from the following:</p> <p>Please select an even split of credits overall by Semester including your compulsory modules.</p> <p>There may be other modules across the university that interest you but do not appear in the list below. If you would like to take a module that does not appear in the list below please contact the relevant module leader and inform the Faculty Student Office of your proposed change.</p> <p>It is the responsibility of each student to ensure that the combination of modules they have selected is valid, inc pre-</p>		

	<p>requisites and co-requisites, and meets the requirements of their programme of study.</p> <p>Please be aware that you must take at least 90credits at the appropriate level and satisfy the progression criteria e.g. It is not possible to backtrack optional modules as well as take Language modules.</p>		
Rule 1 GROUP 1	<p>Select up to 15 credits</p> <p>The following modules are strongly recommended.</p>		
PHYS 1203	Linear Algebra for Physics	15	Semester 2
PHYS 1004	Introduction to Photonics	15	Semester 2
PHYS 1005	Introduction to Astronomy and Space Science	15	Semester 2
Rule 1 GROUP 2	<p>Select up to 15 credits</p>		
LANG XX15	Language Module	15	Show Electives

Programme:	MPhys with Ind Placement - 5229
Term:	2020-2021 Academic Session (202021)
Area title:	5229-2 - MPhys with Ind Placement Pt 2

Compulsory Modules

You must complete the following modules:

Module	Module Title	Credit	Core?	Semester/Term
PHYS 2001	Electromagnetism	15	Yes	Semester 2
PHYS 2003	Quantum Physics	15	Yes	Semester 2
PHYS 2006	Classical Mechanics	15	Yes	Semester 1

PHYS 2022 Physics from Evidence I	15	Yes	Semester 1
PHYS 2023 Wave Physics	15	Yes	Semester 1
PHYS 2024 Statistical Mechanics	15	Yes	Semester 2

Optional Modules

You must choose from the following modules:

Module		Credit	Semester/Term
Rule 1	<p>Select two modules</p> <p>There may be other modules across the university that interest you but do not appear in the list below. If you would like to take a module that does not appear in the list below, please contact the relevant module leader and inform the faculty student office of your proposed change.</p> <p>It is the responsibility of each student to ensure that the combination of modules they have selected is valid, including prerequisites and co-requisites, and meets the requirements of their programme of study. Students changing their selection after the options deadline (end of second week of semester) are responsible for checking there are no timetable clashes.</p>		
Rule SEMESTER 1	Select one Semester 1 module		
CHEM 1012	Introduction to Chemistry	15	Semester 1
HUMA 2013	How the Arts Work: A Practical Introduction to Cultural Econ	15	Semester 1
LANG XX15	Language Module	15	Show Electives
MATH 2015	Mathematical Methods for Scientists	15	Semester 1
PHIL 1016	Reason and Argument	15	Semester 1
PHYS 2013	Galaxies	15	Semester 1
PHYS 2031	Introduction to the Nanoworld	15	Semester 1

UOSM 2022	Social Enterprise	15	Semester 1
Rule SEMESTER 2	Select one Semester 2 module		
ANTH 2001	Cosmology, Ritual and Belief	15	Semester 2
LANG XX15	Language Module	15	Show Electives
PHYS 2007	Medical Physics	15	Semester 2
PHYS 2009	Practical Photonics	15	Semester 2
PHYS 2015	Introduction to Energy in The Environment	15	Semester 2
UOSM 2017	Intercultural Communication in a Global World	15	Semester 2
UOSM 2031	Engineering Replacement Body Parts	15	Semester 2

Programme:	MPhys with Ind Placement - 5229
Term:	2020-2021 Academic Session (202021)
Area title:	5229-3 - MPhys with Ind Placement Pt 3

Compulsory Modules

You must complete the following modules:

Module	Module Title	Credit	Core?	Semester/Term
PHYS 3002	Nuclei & Particles	15	Yes	Semester 2
PHYS 3004	Crystalline Solids	15	Yes	Semester 2
PHYS 3007	Theories of Matter, Space&Time	15	Yes	Semester 1
PHYS 3008	Atomic Physics	15	Yes	Semester 1
PHYS 6009	Dissertation	15	Yes	Semester 1

Optional Modules

You must choose from the following modules:

Module		Credit	Semester/Term

Rule 1	<p>Select 1 module</p> <p>Please select 1 module from the following:-</p>		
PHYS 6008	Physics from Evidence II	15	Semester 2
PHYS 6017	Computer Techniques in Physics	15	Semester 2
Rule 2	<p>Select 2 modules</p> <p>Please select an even split of credits overall by Semester including your compulsory modules.</p> <p>There may be other modules across the university that interest you but do not appear in the list below. If you would like to take a module that does not appear in the list below please contact the relevant module leader and inform the Faculty Student Office of your proposed change</p> <p>It is the responsibility of each student to ensure that the combination of modules they have selected is valid, inc pre-requisites and co-requisites, and meets the requirements of their programme of study. Students changing their selection after the options deadline (end of semester week 2) are responsible for checking there are no timetable clashes</p> <p>Please be aware that you must take at least 90 credits at the appropriate level and satisfy the progression criteria e.g. It is not possible to backtrack optional modules as well as take Language modules</p>		
Rule 2 GROUP 2	Select up to 2 modules		
ANTH 2001	Cosmology, Ritual and Belief	15	Semester 2
HUMA 2013	How the Arts Work: A Practical Introduction to Cultural Econ	15	Semester 1
LANG XX15	Language Module	15	Show Electives
MATH 2015	Mathematical Methods for Scientists	15	Semester 1
MATH 2038	Partial Differential Equations	15	Semester 2

MATH 2045	Vector Calculus and Complex Variable	15	Semester 1
MATH 3006	Relativity, Black Holes and Cosmology	15	Semester 2
MATH 3018	Numerical Methods	15	Semester 1
PHYS 2007	Medical Physics	15	Semester 2
PHYS 2009	Practical Photonics	15	Semester 2
PHYS 2013	Galaxies	15	Semester 1
PHYS 2015	Introduction to Energy in The Environment	15	Semester 2
PHYS 3009	Applied Nuclear Physics	15	Semester 2
PHYS 3010	Stellar Evolution	15	Semester 1
PHYS 3011	Photons in Astrophysics	15	Semester 2
PHYS 6003	Advanced Quantum Physics	15	Semester 1
PHYS 6004	Space Plasma Physics	15	Semester 2
PHYS 6005	Cosmology	15	Semester 1
PHYS 6011	Particle Physics	15	Semester 2
PHYS 6012	Coherent Light, Coherent Matter	15	Semester 1
PHYS 6014	Nanoscience: technology and advanced materials	15	Semester 2
PHYS 6024	Lasers	15	Semester 1
PHYS 6071	Physics of the Early Universe	15	Semester 2
UOSM 2017	Intercultural Communication in a Global World	15	Semester 2
UOSM 2022	Social Enterprise	15	Semester 1
UOSM 2031	Engineering Replacement Body Parts	15	Semester 2

Programme:	MPhys with Ind Placement - 5229
Term:	2020-2021 Academic Session (202021)
Area title:	5229-4 - MPhys with Ind Placement Pt 4

Compulsory Modules

You must complete the following modules:

Module	Module Title	Credit	Core?	Semester/Term
PHYS 6015	MPhys Final Year Synoptic Exam	15	No	Semester 2
PHYS 6027	R&D Proj for MPhys Ind Placmnt	60	Yes	Semester 1

Optional Modules

You must choose from the following modules:

Module		Credit	Semester/Term
Rule 1	<p>Select 3 modules</p> <p>There may be other modules across the university that interest you but do not appear in the list below. If you would like to take a module that does not appear in the list below please contact the relevant module leader and inform the Faculty Student Office of your proposed change.</p> <p>It is the responsibility of each student to ensure that the combination of modules they have selected is valid, inc pre-requisites and co-requisites, and meets the requirements of their programme of study. Students changing their selection after the options deadline (end of semester week 2) are responsible for checking there are no timetable clashes</p> <p>Please be aware that you must take at least 90 credits at the appropriate level and satisfy the progression criteria e.g. It is not possible to backtrack optional modules as well as take Language modules.</p> <p>Please select 3 modules:-</p>		
ISVR 3061	Human Responses to Sound and Vibration	15	Semester 2
ISVR 6138	Biomedical Application of Signal and Image Processing	15	Semester 2
LANG XX15	Language Module	15	Show Electives
MATH 3006	Relativity, Black Holes and Cosmology	15	Semester 2
OPTO 6002	Advanced Lasers	15	Semester 2
PHYS 3009	Applied Nuclear Physics	15	Semester 2

PHYS 3010	Stellar Evolution	15	Semester 1
PHYS 6004	Space Plasma Physics	15	Semester 2
PHYS 6011	Particle Physics	15	Semester 2
PHYS 6014	Nanoscience: technology and advanced materials	15	Semester 2
PHYS 6071	Physics of the Early Universe	15	Semester 2