

School of Physics, Astronomy and Mathematics

Title of Programme: MPhys (Hons) Physics and Astrophysics

Programme Code: PMMPHY

Programme Specification

This programme specification is relevant to students entering:
01 September 2018

Associate Dean of School (Academic Quality Assurance):
Stephen Kane

Signature



A programme specification is a collection of key information about a programme of study (or course). It identifies the aims and learning outcomes of the programme, lists the modules that make up each stage (or year) of the programme, and the teaching, learning and assessment methods used by teaching staff. It also describes the structure of the programme, its progression requirements and any programme-specific regulations. This information is therefore useful to potential students to help them choose the right programme of study, to current students on the programme, and to staff teaching and administering the programme.

Summary of amendments to the programme:

Section	Amendment

If you have any queries regarding the changes please email AQO@herts.ac.uk

Programme Specification MPhys Physics and Astrophysics

This programme specification (PS) is designed for prospective students, enrolled students, academic staff and potential employers. It provides a concise summary of the main features of the programme and the intended learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. More detailed information on the teaching, learning and assessment methods, learning outcomes and content for each module can be found in Definitive Module Documents (DMDs) and Module Guides.

Section 1

Awarding Institution/Body	University of Hertfordshire
Teaching Institution	University of Hertfordshire
University/partner campuses	College Lane, Bayfordbury Observatory
Programme accredited by	Institute of Physics (IOP)
Final Qualification	MPhys (Hons)
All Final Award titles (Qualification and Subject)	<ol style="list-style-type: none">1. MPhys (Hons)Physics2. MPhys (Hons)Astrophysics3. MPhys (Hons)Physics with a Year Abroad4. MPhys (Hons)Astrophysics with a Year Abroad5. MPhys (Hons)Physics (Sandwich)6. MPhys (Hons)Astrophysics (Sandwich)7. MPhys (Hons) Physics (Sandwich) with Study Abroad8. MPhys (Hons) Astrophysics (Sandwich) with Study Abroad
FHEQ level of award	7
UCAS code(s)	<ol style="list-style-type: none">1. F304 MPhys Physics2. F511 MPhys Astrophysics3. F312 MPhys Physics with a Year Abroad4. F510 MPhys Astrophysics with a Year Abroad
Language of Delivery	English

A. Programme Rationale

The MPhys Physics and Astrophysics programme aims to train physicists and astrophysicists to a level commensurate with the requirements of the profession and to gain the relevant research skills required for further study. The modules are designed to reflect the importance of fundamental concepts and ideas that underpin the physical sciences. They aim to instil in the student an appreciation of the beauty of the physical world and the remarkable success that analytical, observational and experimental techniques have achieved in predicting and explaining its behaviour. Emphasis is placed on practical work in the laboratories, at the observatory and in computer suites.

The MPhys programmes allow students to study physics or astrophysics to a greater depth and breadth than possible within the BSc programmes. They provide a unified, coherent and broadly based training in physics or astrophysics, and aim to give students a greater understanding and appreciation of the subject enabling them to work in academic or industrial research.

The programme endeavours to recruit students with a genuine enthusiasm and interest in the subject area. It seeks to foster a creative spirit in students to help them fulfil their potential, to become creative scientists and to become successful in a wide range of graduate professions where logical and analytical thinking is required.

The common level 4 studies and other core elements, reflect the belief that there is a backbone of physical theory and supporting mathematics which must underpin the whole programme. The final year project tests a wide variety of skills and brings together various aspects of the course.

Communication skills are addressed directly within the programme through compulsory modules at levels 4, 5 and 6 and are continually supported by requirements for written coursework, individual and team work and a substantial level 7 project. In particular, electronic communication is introduced at the outset and is used thereafter both in the taught modules and projects. At level 5 students have to choose one of two modules that address professional issues relevant to a professional career. One module is aimed at career physicists whilst the other is tailored specifically to the teaching of physics and mathematics in schools.

B. Educational Aims of the Programme

The programme has been devised in accordance with the University's graduate attributes of programmes of study as set out in [UPR TL03](#).

Additionally this programme aims to:

- offer an education and training based on the core requirements of the Institute of Physics that is suited to the abilities and career aspirations of students and which, by offering choices of study path, will help them realise their own potential and provide the opportunity for postgraduate work in physics and astrophysics.
- offer a stimulating and supportive environment which encourages students to be critically receptive to new ideas
- offer potential postgraduate students a platform which will enable them to embark upon further study in areas such as physics, astrophysics and other related disciplines
- develop competence in communicating scientific results to other experts and to non-specialists, including the use of computers and software packages for information retrieval and presentation;
- develop the ability to approach problem-solving activities using physical insight and laboratory/observatory skills aided where appropriate, by computer-based techniques.
- develop students' project-working skills and attributes to a level suitable for entry to postgraduate research degrees;

C. Intended Learning Outcomes

The programme provides opportunities for students to develop and demonstrate knowledge and understanding, skills and other attributes in the following areas. The programme outcomes are referenced to the QAA benchmark statements for Physics, Astronomy and Astrophysics and the Frameworks for Higher Education Qualifications of UK Degree-Awarding Bodies (2014) and relate to the typical student. Additionally, the SEEC Credit Level Descriptors for Further and Higher Education (2016) have been used as a guiding framework for curriculum design.

Knowledge and Understanding	Teaching and learning methods	Assessment strategy
A1- the fundamental concepts, ideas and theories of Physics and Astrophysics;	Acquisition of knowledge and understanding is through a combination of lectures, workshops, problem-based learning, electronic resources, small group tutorials, coursework, directed study, feedback from assessment and practical work at each level, together with an investigation undertaken at level 6 (A1-A3).	Knowledge and understanding are assessed through a combination of unseen examinations (A1, A2), practical examinations (A2), in-course assessments (A1-A3) in the form of laboratory reports and logbooks (A2, A3), class tests (A1, A2), coursework assignments (A1-A4), project report (A1-A4), oral and poster presentation (A1-A4).
A2- the mathematical and computational techniques used to frame and solve physical problems;		
A3- the techniques of practical work in Physics;		
	Acquisition of A4 takes place predominantly during Level 7 of the MPhys programmes and is	

<p>A4 - the techniques of practical work in Astrophysics;</p>	<p>developed across a wide range of modules, including the project, as well as more standard taught units undertaken at the university.</p>	
<p>A5 – selected recent developments within some current research areas of physics, building upon the knowledge and understanding acquired through points A1-3 above</p>	<p>Throughout, the learner is encouraged to undertake independent study both to supplement and consolidate what is being taught/learnt and to broaden their individual knowledge and understanding of the subject.</p> <p>Additional support is provided by StudyNet, the Mathematics Drop-In Centre and the in the case of level 4, personal tutors.</p>	
Intellectual skills	Teaching and learning methods	Assessment strategy
<p>B1- formulate and tackle problems in physics and astrophysics; to advanced levels in physics for the Physics award, and to advanced levels in astrophysics for the Astrophysics awards</p>	<p>Intellectual skills are developed throughout the programme by the methods and strategies outlined in section A above.</p> <p>Learning Outcomes B1-B3 are developed through tutorial exercises, workshops, coursework, group-work, laboratory or observatory work and project work.</p>	<p>Intellectual skills are assessed through a combination of unseen examinations (B1, B3), practical examinations (B3), assessed individual in-course assignments (B1-B5), laboratory/observatory reports (B2), workbooks and logbooks (B1-B3), class tests (B1,B3), presentations (B1-B3) and final year project report (B1-B5).</p>
<p>B2- plan, execute and report the results of an experiment or an investigation; to advanced levels in physics for the Physics award, and to advanced levels in astrophysics for the Astrophysics awards</p>	<p>B4 is developed primarily within the mathematics, computing and project module.</p> <p>The cognitive development leading to B5 takes place mainly at Level 7.</p>	<p>B6 is assessed by written/verbal reports from the student, the placement organisation and the placement tutor.</p>
<p>B3- use mathematics and computing to describe the physical world or an investigation;</p>	<p>Acquisition of Learning Outcome B6 is through a professional placement in a suitable scientific or commercial organisation.</p>	<p>B7 is assessed through relevant modules studied at an overseas institution.</p>
<p>B4- discuss critically the role of numerical modeling, uncertainty and approximations in physics;</p>	<p>Throughout, the learner is encouraged to develop intellectual skills further by independent study.</p>	
<p>B5 – critically evaluate arguments, assumptions, abstract concepts and data (that may be incomplete), make judgments, and frame appropriate questions to achieve a solution or</p>		

<p>identify a range of solutions to a problem.</p> <p>And in the case of sandwich students</p> <p>B6- will have obtained significant practical experience of working in a suitable environment, alongside professionals or others engaged in scientific or commercial work</p> <p>And in the case of students studying abroad</p> <p>B7 – will have obtained significant practical experience of studying in a foreign country.</p>		
Practical skills	Teaching and learning methods	Assessment strategy
<p>C1- perform experimental work and draw conclusions;</p> <p>C2- apply appropriate analytical and modelling techniques to physical problems;</p> <p>C3 – produce clear and accurate scientific reports on complex topics, and prepare and give technical presentations;</p> <p>C4 – make appropriate and effective use of scientific literature, such as textbooks and refereed research articles.</p>	<p>Practical skills are developed through a series of laboratory classes at levels 4 to 5 (C1, C2) and a level 6 investigation (C2) and Level 7 project. C3 and C4 are developed through a number of modules at Level 7.</p> <p>Throughout, the learner is expected to consolidate their development of practical computing skills by use of appropriate personal computers available in the learning resources centre.</p>	<p>Practical skills are assessed through laboratory reports (C1) and coursework and assignments (C1, C2).</p> <p>C3 and C4 are assessed during the project and also some option modules at Level 7 that require students to research and write a technical review on an aspect of physics.</p>
Transferable skills	Teaching and learning methods	Assessment strategy
<p>D1- communicate effectively, both orally and in writing;</p> <p>D2- work effectively in a team;</p> <p>D3- demonstrate time, personal management and IT skills.</p> <p>D4 – retrieve, synthesize and evaluate information and</p>	<p>Transferable skills are developed through problem solving workshops and group presentations (D1-D3), individual assignments (D1, D3), writing practical reports (D1) and project work (D1-D4).</p> <p>Throughout, the learner is encouraged to develop transferable skills by maintaining a record of evidence and</p>	<p>Transferable skills are assessed through a combination of group presentations (D1-D3), individual assignments (D1, D3), written practical reports (D1-D3), project posters and reports) (D1-D4).</p>

data from a variety of sources

completing a personal development plan.

D. Programme Structures, Features, Levels, Modules, and Credits

The programme is offered in full-time (4 years), sandwich/year abroad (5 years) and part-time (8 years) modes, and leads to the award of a

1. MPhys Degree in Physics
2. MPhys Degree in Astrophysics.

In addition the BSc (Hons) degrees in the above subjects are available as an exit award after three years of study.

Entry is normally at level 4 (with suitable A-level or equivalent qualifications), but is possible at level 5, 6 or 7 with suitable qualifications (e.g. successful completion of relevant studies at the correct level at another institution).. Intake is normally semester A (September).

Professional and Statutory Regulatory Bodies

The MPhys physics and astrophysics awards are accredited by the Institute of Physics and graduates may apply for associate membership of the society.

Work-Based Learning, including Sandwich Programmes

An award in the sandwich mode is made if at least 36 weeks of approved, supervised work experience is undertaken in addition to the period required for full-time award.

Year Abroad

An award in the “Year Abroad” mode is made to a student who has successfully completed the requirements for a full-time BSc award, and also successfully completed a two-semester programme of study at a partner institution in a non-UK country, as organised and approved by the University’s Study Abroad Office. The Year Abroad typically occurs between Level 5 and Level 6 of the programme and typically takes place over Semester A and Semester B.

The programme of study for the Year Abroad mode will be negotiated and approved by the Study Abroad Office in consultation with appropriate others, such as the Programme Leader (or equivalent) and the appropriate representative at the hosting institution. The programme provided by the host institution may consist of (for example): taught modules, a research project, field studies, or a mixture of these components. Prior to starting the Year Abroad, the student and programme officers from UH and the host institution will agree a learning contract and mode of assessment for the study at the hosting institution.

Programme Structure

The programme structure and progression information below (Table 1a and 1b) is provided for the Honours award. Any interim awards are identified in Table 1b. The Programme Learning Outcomes detailed above are developed and assessed through the constituent modules. Table 2 identifies where each learning outcome is assessed.

Table 1a Outline Programme Structure

MPhys (Hons) Physics

Mode of study Full Time/Part time

Entry point Semester A

Level 4 MPhys (Hons) Physics

	Module Code	Credit Points	Language of Delivery	% Examination	% Coursework	% Practical	Semesters
Compulsory Modules							
Module Title							
Mathematical Techniques 1	4PAM1034	30	English	50	50	0	AB
Contemporary Physics	4PAM0009	30	English	60	40	0	AB
The Physical Universe	4PAM1013	30	English	60	40	0	AB
Applications of Computing	4PAM1044	15	English	0	100	0	B
Laboratory Physics 1	4PAM1049	15	English	0	100	0	A
Small Group Tutorial	4PAM1027	0	English	0	100	0	AB

Level 5 MPhys Physics

	Module Code	Credit Points	Pre-req	Language of Delivery	% Examination	% Coursework	% Practical	Semesters
Compulsory Modules								
Module Title								
Mathematical Techniques 2	5PAM1022	15	4PAM1034	English	80	20	0	A
Graduate Skills	5PAM1027	0		English	0	100	0	AB
Professional Teaching Skills*	5PAM1025	15		English	0	100	0	A
Programming*	5PAM1023	15	4PAM1044	English	0	100	0	A
Quantum Physics	5PAM0027	15	4PAM0009	English	60	40	0	B
Thermal and Condensed Matter Physics	5PAM0013	30	4PAM0009 Or 4PAM1013	English	80	20	0	AB
Optical Physics & Electromagnetism	5PAM0026	30	4PAM0009 Or 4PAM1013	English	60	40	0	AB

* Exactly one of these two

	Module Code	Credit Points	Pre-req	Language of Delivery	% Examination	% Coursework	% Practical	Semesters
Optional Modules								
Module Title								
Differential Equations	5PAM1032	15	4PAM1034	English	80	20	0	B
Dynamics	5PAM1024	15	4PAM1034	English	70	30	0	B
Laboratory Physics 2	5PAM0023	15	4PAM0016	English	0	100	0	B
Numerical Methods	5PAM1029	15	4PAM1034	English	80	20	0	B

Optional sandwich year

Optional Modules Module Title	Module Code	Credit Points	Pre-req	Language of Delivery	% Examination	% Coursework	% Practical	Semesters
Professional Placement	6PAM0011	0		English	0	100	0	AB
Year Abroad	6PAM0030	0		English	0	100	0	AB
Placement with Study Abroad	6PAM1033	0	-	English	0	100	0	AB

Level 6 MPhys Physics

Compulsory Modules Module Title	Module Code	Credit Points	Pre-req	Language of Delivery	% Examination	% Coursework	% Practical	Semesters
Computational Physics	6PAM1004	15	4PAM0023	English	0	100	0	A
Contemporary Quantum Physics	6PAM1007	15	5PAM0027	English	0	100	0	B
Waves & Fluids	6PAM0014	30	5PAM0026	English	60	40	0	AB
Investigations in Physics	6PAM1016	15		English	0	100	0	B

Optional Modules Module Title	Module Code	Credit Points	Pre-req	Language of Delivery	% Examination	% Coursework	% Practical	Semesters
Rocket Performance and Propulsion	6AAD0026	15		English	60	40	0	A
Space Dynamics	6PAM0027	15	4PAM0023	English	0	100	0	B
Physics of Stars	6PAM0015	30	5PAM0013	English	60	40	0	AB
Nonlinear Systems	6PAM1030	15	4PAM1034	English	80	20	0	B
Partial Differential Equations	6PAM1023	15	5PAM1022	English	80	20	0	A
Dynamics and Geometry	6PAM1026	15	5PAM1022	English	80	20	0	B
Further Numerical Methods	6PAM1027	15	5PAM1029	English	80	20	0	B

Level 7 MPhys Physics

Compulsory Modules Module Title	Module Code	Credit Points	Pre-req	Language of Delivery	% Examination	% Coursework	% Practical	Semesters
Physics Research Project	7PAM1028	60	6PAM1016	English	0	100	0	AB
Programming & Statistics	7PAM1023	15		English	50	50	0	A
Relativity and Field Theory *	7PAM1027	15	5PAM0012, 5PAM0027, 5PAM0026	English	80	20	0	A
Atmospheric Physics *	7PAM1022	15		English	60	40	0	B

* At least one of these modules

Optional Modules Module Title	Module Code	Credit Points	Pre-req	Language of Delivery	% Examination	% Coursework	% Practical	Semesters
CFD Techniques	7ENT1007	15		English	60	40	0	A
CFD Analysis for Aerospace Applications	7ENT1006	15		English	60	40	0	B
MRI Science & Principles	7HSK0101	15	5PAM0026	English	0	100	0	A
CT Science & Principles	7HSK0102	15	5PAM0026	English	0	100	0	B
Relativity and Field Theory *	7PAM1027	15	5PAM0012	English	80	20	0	A
Atmospheric Physics *	7PAM1022	15		English	60	40	0	B
High Energy Astrophysics	7PAM1020	15		English	60	40	0	B

* At least one of these modules

MPhys Astrophysics

Mode of study Full time/Part time

Entry point Semester A

Level 4 MPhys Astrophysics

Compulsory Modules Module Title	Module Code	Credit Points	Language of Delivery	% Examination	% Coursework	% Practical	Semesters
Mathematical Techniques 1	4PAM1034	30	English	50	50	0	AB
Contemporary Physics	4PAM0009	30	English	60	40	0	AB
The Physical Universe	4PAM1013	30	English	60	40	0	AB
Applications of Computing	4PAM1044	15	English	0	100	0	B
Laboratory Physics 1	4PAM1049	15	English	0	100	0	A
Small Group Tutorial	4PAM1027	0	English	0	100	0	AB

Level 5 MPhys Astrophysics

Compulsory Modules Module Title	Module Code	Credit Points	Pre-req	Language of Delivery	% Examination	% Coursework	% Practical	Semesters
Mathematical Techniques 2	5PAM1022	15	4PAM1034	English	80	20	0	A
Graduate Skills	5PAM1027	0		English	0	100	0	AB
Professional Teaching Skills*	5PAM1025	15		English	0	100	0	A
Programming*	5PAM1023	15	4PAM1044	English	0	100	0	A
Quantum Physics	5PAM0027	15	4PAM0009	English	60	40	0	B
Solar System Physics	5PAM0025	30	4PAM0009 Or 4PAM1013	English	60	40	0	AB

Optical Physics & Electromagnetism	5PAM0026	30	4PAM0009 Or 4PAM1013	English	60	40	0	AB
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* Exactly one of these two

Optional Modules Module Title	Module Code	Credit Points	Pre-req	Language of Delivery	% Examination	% Coursework	% Practical	Semesters
Differential Equations	5PAM1032	15	4PAM1034	English	80	20	0	B
Dynamics	5PAM1024	15	4PAM1034	English	70	30	0	B
Laboratory Physics 2	5PAM0023	15	4PAM0016	English	0	100	0	B
Numerical Methods	5PAM1029	15	4PAM1034	English	80	20	0	B

Optional sandwich year

Optional Modules Module Title	Module Code	Credit Points	Pre-req	Language of Delivery	% Examination	% Coursework	% Practical	Semesters
Professional Placement	6PAM0011	0	-	English	0	100	0	AB
Year Abroad	6PAM0030	0	-	English	0	100	0	AB
Placement with Study Abroad	6PAM1033	0	-	English	0	100	0	AB

Level 6 MPhys Astrophysics

Compulsory Modules Module Title	Module Code	Credit Points	Pre-req	Language of Delivery	% Examination	% Coursework	% Practical	Semesters
Computational Physics	6PAM1004	15	4PAM0023	English	0	100	0	A
Physics of Stars	6PAM0015	30	5PAM0025	English	60	40	0	AB
Cosmology and Large Scale Structure	6PAM1001	30	5PAM0025	English	60	40	0	AB
Investigations in Physics	6PAM1016	15	-	English	0	100	0	B

Optional Modules Module Title	Module Code	Credit Points	Pre-req	Language of Delivery	% Examination	% Coursework	% Practical	Semesters
Rocket Performance and Propulsion	6AAD0026	15		English	60	40	0	A
Space Dynamics	6PAM0027	15	4PAM0023	English	0	100	0	B
Contemporary Quantum Physics	6PAM1007	15	5PAM0027	English	0	100	0	B
Waves & Fluids	6PAM0014	30	5PAM0026	English	60	40	0	AB

Nonlinear Systems	6PAM1030	15	4PAM1034	English	80	20	0	B
Partial Differential Equations	6PAM1023	15	5PAM1022	English	80	20	0	A
Dynamics and Geometry	6PAM1026	15	5PAM1022	English	80	20	0	B
Further Numerical Methods	6PAM1027	15	5PAM1029	English	80	20	0	B

Level 7 MPhys Astrophysics

	Module Code	Credit Points	Pre-req	Language of Delivery	% Examination	% Coursework	% Practical	Semesters
Compulsory Modules								
Module Title								
Astrophysics Research Project	7PAM1029	60	6PAM1016	English	0	100	0	AB
Programming & Statistics	7PAM1023	15		English	50	50	0	A
Galaxy Structure & Evolution*	7PAM1030	15	6PAM1001	English	60	40	0	A
High Energy Astrophysics*	7PAM1020	15		English	60	40	0	B

*At least one of these modules

	Module Code	Credit Points	Pre-req	Language of Delivery	% Examination	% Coursework	% Practical	Semesters
Optional Modules								
Module Title								
CFD Techniques	7ENT1007	15		English	60	40	0	A
CFD Analysis for Aerospace Applications	7ENT1006	15		English	60	40	0	B
MRI Science & Principles	7HSK0101	15	5PAM0026	English	0	100	0	A
CT Science & Principles	7HSK0102	15	5PAM0026	English	0	100	0	B
Galaxy Structure & Evolution*	7PAM1030	15	6PAM1001	English	60	40	0	A
Atmospheric Physics	7PAM1022	15		English	60	40	0	B
High Energy Astrophysics*	7PAM1020	15		English	60	40	0	B
Relativity and Field Theory	7PAM1027	15	5PAM0012	English	80	20	0	A

* At least one of these modules

Progression to level 5 requires a minimum of 90 credits. The maximum study rate in such an instance would be 150 credits and students would be expected to remedy any failed modules from level 4 in the first instance.

Progression to non-honours level 5 with 75 credits may be permissible. The maximum study rate in such an instance would normally be 120 credits and students would be expected to remedy any failed modules from level 4 in the first instance

Progression to level 6 requires 210 credits. The maximum study rate in such an instance would be 150 credits and students would be expected to remedy any failed modules from level 5 in the first instance.

Progression to non-honours level 6 with 180 credits may be permissible. The maximum study rate in such an instance would normally be 120 credits and students would be expected to remedy any failed modules from level 5 in the first instance

The award of an Honours degree in Physics or Astrophysics requires 360 credit points passed with a minimum of at least 120 at level 6 including 6PAM1019 Investigation in Physics and 6PAM1004 Computational Physics.

Progression to Level 7 requires 360 credit points passed with a minimum of at least 120 at level 6 with the student performing at 2(i) standard. If by the end of Level 6 the student is not performing at a standard of 2(i) then the exit award would be a BSc (Hons). The award of an Honours degree in Physics or Astrophysics requires 360 credit points passed with a minimum of at least 120 at level 6 including 6PAM1019 Investigation in Physics and 6PAM1004 Computational Physics.

Honours classification

The University has approved structure and assessment regulations common to all programmes. Full details are provided in [UPR AS14](#), Section D.

Table 1b Final and interim awards available

The programme provides the following final and interim awards:

Final Award	Award Title	Minimum requirements	Available at end of Level	Programme Learning Outcomes developed (see above)
BSc (Hons)	Physics	360 credit points including 240 at level 6/5 of which 120 must be at level 6	6	A1, A2, A3, B1, B2, B3, C1, C2, D1, D2, D3
BSc (Hons)	Astrophysics	360 credit points including 240 at level 6/5 of which 120 must be at level 6	6	A1, A2, A4, B1, B2, B3 , C1, C2, D1, D2, D3
BSc (Hons)	Physics (Sandwich)	360 credit points including 240 at level 6/5 of which 120 must be at level 6. Minimum of a 36 week approved and supervised placement plus have must perform satisfactorily as assessed by the Professional Training Certification Panel.	6	A1, A2, A3, B1, B2, B3, B4, C1, C2, D1, D2, D3
BSc (Hons)	Astrophysics (Sandwich)	360 credit points including 240 at level 6/5 of which 120 must be at level 6. Minimum of a 36 week approved and supervised placement plus have must perform satisfactorily as assessed by the Professional Training Certification Panel.	6	A1, A2, A4, B1, B2, B3 , B4, C1, C2, D1, D2, D3
BSc (Hons)	Physics with a Year Abroad	360 credit points including 240 at level 6/5 of which 120 must be at level 6. With one academic year of study at an approved institution in Europe or world-wide and must perform satisfactorily as assessed by the Professional Training Certification Panel.	6	A1, A2, A3, B1, B2, B3, B5, C1, C2, D1, D2, D3
BSc (Hons)	Astrophysics with a Year Abroad	360 credit points including 240 at level 6/5 of which 120 must be at level 6. With one academic year of study at an approved institution in Europe or world-wide and must perform satisfactorily as assessed by the Professional Training Certification Panel.	6	A1, A2, A4, B1, B2, B3 , B5, C1, C2, D1, D2, D3

BSc (Hons)	Physics (Sandwich) with Study Abroad	360 credit points including 240 at level 6/5 of which 120 must be at level 6. Minimum of an 18 week approved and supervised placement plus half of one academic year of study at an approved institution in Europe or world-wide and must perform satisfactorily as assessed by the Professional Training Certification Panel.	6	A1, A2, A3, B1, B2, B3, B4, B5, C1, C2, D1, D2, D3
BSc (Hons)	Astrophysics (Sandwich) with Study Abroad	360 credit points including 240 at level 6/5 of which 120 must be at level 6. Minimum of an 18 week approved and supervised placement plus half of one academic year of study at an approved institution in Europe or world-wide and must perform satisfactorily as assessed by the Professional Training Certification Panel.	6	A1, A2, A4, B1, B2, B3, B4, B5, C1, C2, D1, D2, D3
MPhys (Hons)	Physics	480 credits, including at least 360 at Level 7/6/5 of which at least 240 must be at Level 7/6 and at least 120 must be at Level 7	7	A1, A2, A3, B1, B2, B3, B4, B5, C1, C2, C3, C4 D1, D2, D3, D4
MPhys (Hons)	Astrophysics	480 credits, including at least 360 at Level 7/6/5 of which at least 240 must be at Level 7/6 and at least 120 must be at Level 7	7	A1, A2, A4, B1, B2, B3, B4, B5, C1, C2, C3, C4 D1, D2, D3, D4
MPhys (Hons)	Physics (Sandwich)	480 credits, including at least 360 at Level 7/6/5 of which at least 240 must be at Level 7/6 and at least 120 must be at Level 7. Minimum of a 36 week approved and supervised placement plus have must perform satisfactorily as assessed by the Professional Training Certification Panel.	7	A1, A2, A3, B1, B2, B3, B4, B5, B6, C1, C2, C3, C4 D1, D2, D3, D4
MPhys (Hons)	Astrophysics (Sandwich)	480 credits, including at least 360 at Level 7/6/5 of which at least 240 must be at Level 7/6 and at least 120 must be at Level 7. Minimum of a 36 week approved and supervised placement plus have must perform satisfactorily as assessed by the Professional Training Certification Panel.	7	A1, A2, A4, B1, B2, B3, B4, B5, B6, C1, C2, C3, C4 D1, D2, D3, D4

MPhys (Hons)	Physics with a Year Abroad	480 credits, including at least 360 at Level 7/6/5 of which at least 240 must be at Level 7/6 and at least 120 must be at Level 7. With one academic year of study at an approved institution in Europe or world-wide and must perform satisfactorily as assessed by the Professional Training Certification Panel.	7	A1, A2, A3, B1, B2, B3, B4, B5, B7, C1, C2, C3, C4 D1, D2, D3, D4
MPhys (Hons)	Astrophysics with a Year Abroad	480 credits, including at least 360 at Level 7/6/5 of which at least 240 must be at Level 7/6 and at least 120 must be at Level 7. With one academic year of study at an approved institution in Europe or world-wide and must perform satisfactorily as assessed by the Professional Training Certification Panel.	7	A1, A2, A4, B1, B2, B3, B4, B5, B7, C1, C2, C3, C4 D1, D2, D3, D4
MPhys (Hons)	Physics (Sandwich) with Study Abroad	480 credits, including at least 360 at Level 7/6/5 of which at least 240 must be at Level 7/6 and at least 120 must be at Level 7. Minimum of an 18 week approved and supervised placement plus half of one academic year of study at an approved institution in Europe or world-wide and must perform satisfactorily as assessed by the Professional Training Certification Panel.	7	A1, A2, A3, B1, B2, B3, B4, B5, B6, B7, C1, C2, C3, C4 D1, D2, D3, D4
MPhys (Hons)	Astrophysics (Sandwich) with Study Abroad	480 credits, including at least 360 at Level 7/6/5 of which at least 240 must be at Level 7/6 and at least 120 must be at Level 7. Minimum of an 18 week approved and supervised placement plus half of one academic year of study at an approved institution in Europe or world-wide and must perform satisfactorily as assessed by the Professional Training Certification Panel.	7	A1, A2, A4, B1, B2, B3, B4, B5, B6, B7, C1, C2, C3, C4 D1, D2, D3, D4

Interim Award	Award Title	Minimum requirements	Available at end of Level	Programme Learning Outcomes developed (see above)
University Certificate		45 credit points at level 4	4	See UPR AS11, section 13: http://sitem.herts.ac.uk/segreg/upr/AS11.htm
Certificate of Higher Education		120 credit points at level 4	4, 5	See UPR AS11, section 13: http://sitem.herts.ac.uk/segreg/upr/AS11.htm
Diploma of Higher Education		240 credit points including at least 120 at level 5	5, 6	See UPR AS11, section 13: http://sitem.herts.ac.uk/segreg/upr/AS11.htm
BSc	Physics	300 credit points including 180 at level 6/5 of which 60 must be at level 6	6	A1, A2, A3, B1, B2, B3, C1, C2, D2
BSc	Astrophysics	300 credit points including 180 at level 6/5 of which 60 must be at level 6	6	A1, A2, A4, B1, B2, B3, C1, C2, D2
BSc	Physics (Sandwich)	300 credit points including 180 at level 6/5 of which 60 must be at level 6. Minimum of a 36 week approved and supervised placement plus have must perform satisfactorily as assessed by the Professional Training Certification Panel.	6	A1, A2, A3, B1, B2, B3, B6, C1, C2, D2
BSc	Astrophysics (Sandwich)	300 credit points including 180 at level 6/5 of which 60 must be at level 6. Minimum of a 36 week approved and supervised placement plus have must perform satisfactorily as assessed by the Professional Training Certification Panel.	6	A1, A2, A4, B1, B2, B3, B6, C1, C2, D2
BSc	Physics with a Year Abroad	300 credit points including 180 at level 6/5 of which 60 must be at level 6. With one academic year of study at an approved institution in Europe or world-wide and must perform satisfactorily as assessed by the Professional Training Certification Panel.	6	A1, A2, A3, B1, B2, B3, B7, C1, C2, D2
BSc	Astrophysics with a Year Abroad	300 credit points including 180 at level 6/5 of which 60 must be at level 6. With one academic year of study at an approved institution in Europe or world-wide and must perform satisfactorily as assessed by the Professional Training Certification Panel.	6	A1, A2, A4, B1, B2, B3, B7, C1, C2, D2

BSc	Physics (Sandwich) with Study Abroad	300 credit points including 180 at level 6/5 of which 60 must be at level 6. Minimum of an 18 week approved and supervised placement plus half of one academic year of study at an approved institution in Europe or world-wide and must perform satisfactorily as assessed by the Professional Training Certification Panel.	6	A1, A2, A3, B1, B2, B3, B6, B7, C1, C2, D2
BSc	Astrophysics (Sandwich) with Study Abroad	300 credit points including 180 at level 6/5 of which 60 must be at level 6. Minimum of an 18 week approved and supervised placement plus half of one academic year of study at an approved institution in Europe or world-wide and must perform satisfactorily as assessed by the Professional Training Certification Panel.	6	A1, A2, A4, B1, B2, B3, B6, B7, C1, C2, D2

Programme-specific assessment regulations

The programme complies with the University's academic regulations (in particular, [UPR AS11](#), [UPR AS12/UPR AS13](#) (*delete as applicable*) and [UPR AS14](#)) with the exception of those listed below, which have been approved by the University:

None

Further programme-specific regulations (requiring School-level approval) are given below:

- Progression from one level to the next depends on meeting the pre-requisite requirements of specific chosen modules as detailed in Table 1a to 1d and 1e above.
- To be eligible for any of the above awards a student must attain pass grades in compulsory courses listed in Table 1a to 1d.
- In the case of a Sandwich or Year Abroad award, students must also perform satisfactorily in the professional training year, as assessed by the Professional Training Certification Panel.
- The programme includes a significant amount of group working, as a consequence specific regulations governing cheating and plagiarism are provided in the student handbook.
- Attendance at all scheduled learning and teaching sessions is required on this programme. To pass a module, a student must have attended 75% of the learning and teaching sessions at which attendance is required.

If attendance falls below 75% and the student has not obtained at least 30% in either coursework or examination, the student will normally be deemed to have failed the module at the first attempt and will not be permitted to undertake referred assessment in the module.

Students who have a disability which might impact on their attendance should consult with their disability advisor and programme tutor.

- The maximum length of time that a student can remain registered on the programme is: 5 years for Full-time, 6 years for Sandwich and 8 years for Part-time.

E. Management of Programme & Support for student learning.

Management

The programme is managed and administered through:

- A Programme Leader to help students understand the programme/award structure.
- A designated Student Administrator.
- Personal Tutors to provide academic and pastoral support.
- Placement Tutors to oversee students on sandwich or undertaking a year abroad.
- Project Tutors to guide students through their final year Project.
- Student representatives on programme committees.

Support

Students are supported by:

- An induction week at the beginning of each new academic session.
- Overseas Orientation.
- English language support.
- Undergraduate bursaries.
- Laboratories and an Observatory.
- Module option talks, which provide students with the opportunity to receive information relating to modules on offer for the following academic year.
- Module delivery information given out at the commencement of each module.
- The computing laboratories of School of Physics, Astronomy and Mathematics
- The School of Physics, Astronomy and Mathematics Industrial Training Placements Office.
- StudyNet, a versatile on-line inter-active intranet and learning environment.
- Access to extensive digital and print collections of information resources.
- Attractive modern study environment in Learning Resources Centres.
- A substantial Student Centre that provides advice on issues such as finance, University regulations, legal matters, accommodation, international student support, etc.
- Office of Dean of Students, incorporating Chaplaincy, Counselling and Nursery.
- Medical Centre.
- A Mathematics Support Service..
- A University-based Disabled Student Co-ordinator.
- A School Equality Committee.
- The Students' Union.
- Guided student-centred learning through the use of StudyNet.
- Careers Enterprise and Employment Services

F. Other sources of information

In addition to this Programme Specification, the University publishes guidance to registered students on the programme and its constituent modules:

- A Programme (or Student) Handbook;
- A Definitive Module Document (DMD) for each constituent module;
- A Module Guide for each constituent module.

The [Herts Handbook](#) is an introduction to the academic, social, cultural and sporting services and opportunities available at the University of Hertfordshire, and includes the Student Charter and Student Code of Conduct.

As a condition of registration, all students of the University of Hertfordshire are required to comply with the University's rules, regulations and procedures. These are published in a series of documents called 'University Policies and Regulations' (UPRs). The University requires that all students consult these documents which are available on-line, on the UPR web site, at: <http://www.herts.ac.uk/secreg/upr/>. In

particular, [UPR SA07](#) 'Regulations and Advice for Students' Particular Attention - Index' provides information on the UPRs that contain the academic regulations of particular relevance for undergraduate and taught postgraduate students.

The UK Quality Assurance Agency for Higher Education (QAA) has confirmed the quality and standards of provision at the University of Hertfordshire. A key part of QAA's role is to review and report on how universities maintain their academic standards and quality, to inform students and the wider public. The team of QAA reviewers visited the University of Hertfordshire in 2015/16 and judged that its academic standards, the quality and enhancement of its students' learning experience, and the quality of information about this learning experience all meet UK expectations. In other words, the University meets national requirements for standards and quality. The QAA's report can be accessed at: <http://www.qaa.ac.uk/reviews-and-reports/provider?UKPRN=10007147#.V-KHajXy0nE>

G. Entry requirements

The normal entry requirements for the programme are:

- 340 points from minimum of two GCE/VCE A-levels (normally including GCE A-level Physics and Mathematics or VCE A-level Science) or one VCE Double Award in Science. All key skills and other tariff points counted;

or

- BTEC ND/NC with 5 merits in science or engineering;

plus

- GCSE English and Mathematics at grade C or above.

The module 5PAM1025 requires satisfactory health clearance and DBS (Disclosure and Barring Service) clearance or equivalent. Similar clearance may also be required for 6PAM0011 and 6PAM0030

All international students are required to demonstrate an English Language capability of IELTS 6 in each band [or TOEFL 550 (79 IBT)].

The programme is subject to the University's Principles, Policies and Regulations for the Admission of Students to Undergraduate and Taught Postgraduate Programmes (in [UPR SA03](#)), along with associated procedures. These will take account of University policy and guidelines for assessing accredited prior certificated learning (APCL) and accredited prior experiential learning (APEL).

If you would like this information in an alternative format please contact:
School Administration Manager, Suzanne Locke (s.f.locke@herts.ac.uk)

If you wish to receive a copy of the latest Programme Annual Monitoring and Evaluation Report (AMER) and/or the External Examiner's Report for the programme, please email a request to aqo@herts.ac.uk

MPhys Physics

Table 2: Development of Intended Programme Learning Outcomes in the Constituent Modules

This map identifies where the programme learning outcomes are assessed in the constituent modules. It provides (i) an aid to academic staff in understanding how individual modules contribute to the programme aims (ii) a checklist for quality control purposes and (iii) a means to help students monitor their own learning, personal and professional development as the programme progresses.

		Programme Learning Outcomes (as identified in section 1 and the following page)																															
		Knowledge & Understanding								Intellectual Skills								Practical Skills								Transferable Skills							
		A1	A2	A3	A4	A5	A6	A7	A8	B1	B2	B3	B4	B5	B6	B7	B8	C1	C2	C3	C4	C5	C6	C7	C8	D1	D2	D3	D4	D5	D6	D7	D8
Module Title	Module Code																																
Level 4	Mathematical Techniques 1	4PAM1034		x								x																					
	Contemporary Physics	4PAM0009	x																x														
	The Physical Universe	4PAM1013	x		x						x																						
	Applications of Computing	4PAM1044										x																					
	Small Group Tutorial	4PAM1027	x	x							x	x								x													
	Lab Physics 1	4PAM0016			x						x								x										x				
Level 5	Mathematical Techniques 2	5PAM1022		x							x																						
	Laboratory Physics 2	5PAM0023			x						x							x										x					
	Graduate Skills	5PAM1027																								x	x	x					
	Thermal and Condensed Matter Physics	5PAM0013	x							x								x															
	Optical Physics & Electromagnetism	5PAM0026	x																x														
	Quantum Physics	5PAM0027	x							x																							
	Differential Equations	5PAM1020		x							x																						
	Programming	5PAM1023		x								x																	x				
	Dynamics	5PAM1024		x								x																					
	Numerical Methods	5PAM1029		x								x																					
	Professional Teaching Skills	5PAM1025																									x	x	x				

		Programme Learning Outcomes (as identified in section 1 and the following page)																															
		Knowledge & Understanding								Intellectual Skills								Practical Skills								Transferable Skills							
Module Title	Module Code	A1	A2	A3	A4	A5	A6	A7	A8	B1	B2	B3	B4	B5	B6	B7	B8	C1	C2	C3	C4	C5	C6	C7	C8	D1	D2	D3	D4	D5	D6	D7	D8
Placement Year	6PAM0011														x																		
Year Abroad	6PAM0030															x																	
Placement with Study Abroad	6PAM1033														x	x																	
Nonlinear Systems	6PAM1030		x									x																					
Waves & Fluids	6PAM0014	x		x														x	x														
Physics of Stars	6PAM0015	x		x																													
Space Dynamics	6PAM0027		x							x									x							x	x	x					
Computational Physics	6PAM1004		x									x							x														
Further Numerical Methods	6PAM1027		x									x																					
Contemporary Quantum Physics	6PAM1007	x	x							x									x							x							
Rocket Performance and Propulsion	6AAD0026		x									x							x														
Partial Differential Equations	6PAM1023		x									x																					
Investigations in Physics	6PAM1016																									x		x					
Dynamics and Geometry	6PAM1026		x									x																					
Physics Research Project	7PAM1028					x				x			x	x						x	x					x		x	x				
Programming and Statistics	7PAM1023		x								x	x	x	x					x														
Relativity and Field Theory	7PAM1027		x							x		x		x					x														
Atmospheric Physics	7PAM1022	x				x																											
CFD Techniques	7ENT1007	x	x									x	x						x								x						
CFD Analysis for Aerospace Applications	7ENT1006	x	x									x	x						x								x						
Science and Principles of MRI	7AHP0205		x	x		x					x									x	x								x				
Science and Principles of CT	7AHP0205		x	x		x					x									x	x								x				
High Energy Astrophysics	7PAM1020	x								x																							

Level 6

Level 7

MPhys Astrophysics

Table 2: Development of Intended Programme Learning Outcomes in the Constituent Modules

This map identifies where the programme learning outcomes are assessed in the constituent modules. It provides (i) an aid to academic staff in understanding how individual modules contribute to the programme aims (ii) a checklist for quality control purposes and (iii) a means to help students monitor their own learning, personal and professional development as the programme progresses.

		Programme Learning Outcomes (as identified in section 1 and the following page)																																	
		Knowledge & Understanding								Intellectual Skills								Practical Skills								Transferable Skills									
		A1	A2	A3	A4	A5	A6	A7	A8	B1	B2	B3	B4	B5	B6	B7	B8	C1	C2	C3	C4	C5	C6	C7	C8	D1	D2	D3	D4	D5	D6	D7	D8		
Module Title	Module Code																																		
Level 4	Mathematical Techniques 1	4PAM1034		x																															
	Contemporary Physics	4PAM0009	x																																
	The Physical Universe	4PAM1013	x		x																														
	Applications of Computing	4PAM1044																																	
	Small Group Tutorial	4PAM1027	x	x																															
	Lab Physics 1	4PAM0016			x																														
Level 5	Mathematical Techniques 2	5PAM1022		x																															
	Laboratory Physics 2	5PAM0023			x																														
	Graduate Skills	5PAM1027																																	
	Solar System Physics	5PAM0025	x				x																												
	Optical Physics & Electromagnetism	5PAM0026	x																																
	Quantum Physics	5PAM0027	x																																
	Differential Equations	5PAM1020		x																															
	Programming	5PAM1023		x																															
	Dynamics	5PAM1024		x																															
	Numerical Methods	5PAM1029		x																															
Professional Teaching Skills	5PAM1025																																		

		Programme Learning Outcomes (as identified in section 1 and the following page)																															
		Knowledge & Understanding								Intellectual Skills								Practical Skills								Transferable Skills							
Module Title	Module Code	A1	A2	A3	A4	A5	A6	A7	A8	B1	B2	B3	B4	B5	B6	B7	B8	C1	C2	C3	C4	C5	C6	C7	C8	D1	D2	D3	D4	D5	D6	D7	D8
Placement Year	6PAM0011														x																		
Year Abroad	6PAM0030															x																	
Placement with Study Abroad	6PAM1033														x	x																	
Cosmology and Large Scale Structure	6PAM1001	x			x							x																					
Nonlinear Systems	6PAM1030		x									x																					
Waves & Fluids	6PAM0014	x		x														x	x														
Physics of Stars	6PAM0015	x		x																													
Space Dynamics	6PAM0027		x							x									x							x	x	x					
Computational Physics	6PAM1004		x									x							x														
Further Numerical Methods	6PAM1027		x									x																					
Contemporary Quantum Physics	6PAM1007	x	x									x							x							x							
Rocket Performance and Propulsion	6AAD0026		x									x							x														
Partial Differential Equations	6PAM1023		x									x																					
Investigations in Physics	6PAM1016																									x		x					
Dynamics and Geometry	6PAM1026		x									x																					
Astrophysics Research Project	7PAM1029					x				x			x	x						x	x					x		x	x				
Programming and Statistics	7PAM1023		x								x	x	x	x					x														
Relativity and Field Theory	7PAM1027		x							x		x		x					x														
Atmospheric Physics	7PAM1022	x				x																											
CFD Techniques	7ENT1007	x	x									x	x						x								x						
CFD Analysis for Aerospace Applications	7ENT1006	x	x									x	x						x								x						
Science and Principles of MRI	7AHP0205		x	x		x					x									x	x								x				
Science and Principles of CT	7AHP0205		x	x		x					x									x	x								x				
High Energy Astrophysics	7PAM1020	x								x																							
Galaxy Formation and Evolution	7PAM1025	x				x				x					x																		

Level 6

Level 7

KEY TO PROGRAMME LEARNING OUTCOMES

Knowledge and Understanding

- A1. The fundamental concepts, ideas and theories of Physics and Astrophysics;
- A2. The mathematical and computational techniques used to frame and solve physical problems;
- A3. The techniques of practical work in Physics;
- A4. The techniques of practical work in Astrophysics;
- A5. Selected recent developments within some current research areas of physics, building upon the knowledge and understanding acquired through points A1-3 above.

Intellectual Skills

- B1. Formulate and tackle problems in physics and astrophysics;
- B2. Plan, execute and report the results of an experiment or an investigation;
- B3. Use mathematics and computing to describe the physical world or an investigation
- B4. Discuss critically the role of numerical modelling, uncertainty and approximations in physics;
- B5. Critically evaluate arguments, assumptions, abstract concepts and data (that may be incomplete), make judgements, and frame appropriate questions to achieve a solution or identify a range of solutions to a problem;
- B6. Obtain experience of working in a suitable environment alongside professionals or others engaged in scientific work.
- B7. Will have obtained significant practical experience of studying in a foreign country.

Practical Skills

- C1. Perform experimental work and draw conclusions;
- C2. Apply appropriate analytical and modelling techniques to physical problems.
- C3. Produce clear and accurate scientific reports on complex topics, and prepare and give technical presentations;
- C4. Make appropriate and effective use of scientific literature, such as textbooks and refereed research articles.

Transferable Skills

- D1. Communicate effectively, both orally and in writing;
- D2. Work effectively in a team;
- D3. Demonstrate time, personal management and IT skills
- D4. Retrieve, synthesize and evaluate information and data from a variety of sources

Section 2

Programme management

Relevant QAA subject benchmarking statements

Type of programme

Date of validation/last periodic review

Date of production/ last revision of PS

Relevant to level/cohort

Administrative School

Physics, Astronomy and Astrophysics
Undergraduate and Taught Post Graduate

February 13

March 18

All students entering September 2017

School of Physics, Astronomy and Mathematics

Table 3 Course structure

Course details					
Course code	Course description			JACS	
PMMPHY	MPhys Physics and Astrophysics (Physics)			F300	
Course Instances					
Instances code	Intake	Stream	Instances Year	Location :	Mode of study
MPHY1S	A	Physics	1	Hatfield	Full-time/sandwich
MPHY2S	A	Physics	2	Hatfield	Full-time/sandwich
MPHY3S	A	Physics	3	Hatfield	Sandwich Placement/Study Abroad
MPHY4S	A	Physics	4	Hatfield	Sandwich
MPHY5S	A	Physics	5	Hatfield	Sandwich
MPHY3F	A	Physics	3	Hatfield	Full-time
MPHY4F	A	Physics	4	Hatfield	Full-time
MPHY1P	A	Physics	1	Hatfield	Part-time
MPHY2P	A	Physics	2	Hatfield	Part-time
MPHY3P	A	Physics	3	Hatfield	Part-time
MPHY4P	A	Physics	4	Hatfield	Part-time
MPHY5P	A	Physics	5	Hatfield	Part-time
MPHY6P	A	Physics	6	Hatfield	Part-time
MPHY7P	A	Physics	7	Hatfield	Part-time
MPHY8P	A	Physics	8	Hatfield	Part-time

Course details					
Course code		Course description			JACS
PMMPHYAP		MPhys Physics and Astrophysics (Astrophysics)			F510
Course Instances					
Instances code	Intake	Stream	Instances Year	Location :	Mode of study
MAST1S	A	Astrophysics	1	Hatfield	Full-time/sandwich
MAST2S	A	Astrophysics	2	Hatfield	Full-time/sandwich
MAST3S	A	Astrophysics	3	Hatfield	Sandwich Placement/Study Abroad
MAST4S	A	Astrophysics	4	Hatfield	Sandwich
MAST5S	A	Astrophysics	5	Hatfield	Sandwich
MAST3F	A	Astrophysics	3	Hatfield	Full-time
MAST4F	A	Astrophysics	4	Hatfield	Full-time
MAST1P	A	Astrophysics	1	Hatfield	Part-time
MAST2P	A	Astrophysics	2	Hatfield	Part-time
MAST3P	A	Astrophysics	3	Hatfield	Part-time
MAST4P	A	Astrophysics	4	Hatfield	Part-time
MAST5P	A	Astrophysics	5	Hatfield	Part-time
MAST6P	A	Astrophysics	6	Hatfield	Part-time
MAST7P	A	Astrophysics	7	Hatfield	Part-time
MAST8P	A	Astrophysics	8	Hatfield	Part-time

The programme is managed by;

- Dean of School;
- Associate Dean of School (AQA) who has overall responsibility in Physics, Astronomy and Mathematics;
- a Programme Leader who is responsible for the day-to-day management of the programme;
- an Admissions Tutor with specific responsibility for open days and selection;
- a Placements Tutor to assist with procurement of placements and to advise on placements;
- a designated Administrator to deal with day-to-day administration associated with the programme;
- Module Co-ordinators who are responsible for individual modules;
- a programme committee, the membership of which includes student representatives, academic staff teaching modules, Dean and Associate Dean of School and chaired by the Programme Leader.