

UNIVERSITY OF SUSSEX
DEPARTMENT OF PHYSICS AND ASTRONOMY

MSc IN PHYSICS
MODULE CHOICES FOR PARTICLE PHYSICS 2024-25

- **Email this form at the mps_pgtoffice@sussex.ac.uk by Friday 20th September 2024 12 noon.** If at any point you wish to change a module you must complete a new version of this form. Please note that the Department reserves the right to withdraw any of these modules.

Student's first name

Year of Entry

Student's last name.....

Code	Modules	Credits (Level)	Tick here
Semester One			
<i>The following modules are recommended</i>			
890F3	Data Analysis Techniques	15 (7)	
Semester Two			
<i>The following modules are recommended</i>			
880F3	Particle Physics Detector Technology	15 (7)	
894F3	Frontiers in Particle Physics	15 (7)	
Plus THREE of the following recommended options, at least one of which in Semester One			
823G5	Programming through Python (Semester One)	15 (7)	
877F3	Quantum Field Theory (Semester One) *STRONGLY RECOMMENDED for those taking a particle theory project*	15 (7)	
878F3	Symmetry in Particle Physics (Semester One)	15 (7)	
900F3	Cosmology (Semester One)	15 (7)	
901F3	Beyond the Standard Model (Semester Two) PRE REQUISITE 877F3	15 (7)	
F3214	Particle Physics (Semester Two)	15 (6)	
879F3	Advanced Cosmology (Semester Two) PRE REQUISITE, 900F3	15 (7)	
865G1	Monte Carlo Simulations (Semester Two)	15 (7)	
Year			
919F3	MSc Project Research Skills	30 (7)	✓
920F3	MSc Project P&A	60 (7)	✓
Note: A recommended module can be exchanged for a different module if the supervisor considers it appropriate. If the substitute module is given by a different department then the course convenor must sign off on the module (in addition to the supervisor). Six modules should be taken over two terms, either four in autumn and two in Semester One or three in each semester. No more than 30 credits to be taken at level 6. You will not be allowed to change modules after week 2 of the semester that the module is given. Supervisor/Convenor's Signature			

Declaration

- I understand the terms 'Collusion', 'Plagiarism' and 'Fabrication of Results' as defined in the *Examination & Assessment Handbook* at <http://www.sussex.ac.uk/adqe/standards/examsandassessment>
- I declare that all work submitted for assessment will be solely my work and that reference to the work of others will be properly acknowledged by me.

Student's Signature

I agree that this student can take the following module(s) that are not on the 'recommended' list above.

Supervisor's Signature

For office use only:

Entered by:	Date:
--------------------	--------------

UNIVERSITY OF SUSSEX
DEPARTMENT OF PHYSICS AND ASTRONOMY

MSC IN PHYSICS
MODULE CHOICES ATOMIC, MOLECULAR AND OPTICAL PHYSICS 2024-25

- **Email this form to mps_pgtoffice@sussex.ac.uk by Friday 20th September 2024 by 12 noon.**
- **If at any point you wish to change a module you must complete a new version of this form.**
- **Please note that the Department reserves the right to withdraw any of these modules.**

Student's first name

Year of Entry

Student's last name

Code	Modules	Credit/ Level	Tick here
Semester One			
<i>The following recommended options are offered:</i>			
890F3	Data Analysis Techniques	15 (7)	
893F3	Quantum Optics and Quantum Information	15 (7)	
897F3	Atom Light Interactions	15 (7)	
823G5	Programming through Python	15(7)	
877F3	Quantum Field Theory	15(7)	
F1047	Computational Chemistry	15 (6)	
Semester Two			
<i>The following recommended options are offered:</i>			
893F3	Practical Quantum Technologies	15 (7)	
888F3	Electrons, Cold Atoms and Quantum Circuits PRE REQUISITE 897F3	15 (7)	
F3218	Lasers and Photonics	15 (6)	
F3231	Advanced Condensed State Physics	15 (6)	
865G1	Monte Carlo Simulations	15 (7)	
907F3	Introduction to Nano-materials and Nano-characterisation	15 (7)	
Year			
919F3	MSc Project Research Skills	30 (7)	√
920F3	MSc Project P&A	60 (7)	√

Note:

A recommended module can be exchanged for a different module if the supervisor considers it appropriate. If the substitute module is given by a different department then the course convenor must sign off on the module (in addition to the supervisor).

Six modules should be taken over two terms, either four in autumn and two in Semester One or three in each semester. No more than 30 credits to be taken at level 6.

You will not be allowed to change modules after week 2 of the semester that the module is given.

Supervisor/Convenor's Signature

Declaration

- I understand the terms 'Collusion', 'Plagiarism' and 'Fabrication of Results' as defined in the *Examination & Assessment Handbook* at <http://www.sussex.ac.uk/adqe/standards/examsandassessment>
- I declare that all work submitted for assessment will be solely my work and that reference to the work of others will be properly acknowledged by me.

Student's Signature

I agree that this student can take the following module(s) that are not on the 'recommended' list above.

Supervisor's Signature

For office use only: Entered by:	Date:
---	--------------

UNIVERSITY OF SUSSEX
DEPARTMENT OF PHYSICS AND ASTRONOMY

MSC IN PHYSICS
MODULE CHOICES ASTRONOMY 2024-25

- **Email this form to mps_pgt@sussex.ac.uk by Friday 20th September 2024 by 12 noon.**
- **If at any point you wish to change a module you must complete a new version of this form.**
- **Please note that the Department reserves the right to withdraw any of these modules.**

Student's first name Year of Entry

Student's last name

Code	Modules	Credit/ Level	Tick here
Semester One			
<i>The following modules are recommended</i>			
900F3	Cosmology	15 (7)	
889F3	Galactic Astrophysics	15 (7)	
Semester Two			
<i>The following modules are recommended</i>			
902F3	Astrophysical Processes	15 (7)	
F3244	Stellar and Planetary Physics	15 (6)	
<i>You must take TWO of these recommended options</i>			
890F3	Data Analysis Techniques (Semester One)	15 (7)	
881F3	General Relativity (Semester One)	15 (7)	
823G5	Programming through Python (Semester One)	15 (7)	
894F3	Frontiers in Particle Physics (Semester Two) PRE REQUISITE 890F3	15 (7)	
865G1	Monte Carlo Simulations (Semester Two)	15 (7)	
879F3	Advanced Cosmology (Semester Two)	15 (7)	
All Year			
919F3	MSc Project Research Skills	30 (7)	√
920F3	MSc Project P&A	60 (7)	√
Note:			
A recommended module can be exchanged for a different module if the supervisor considers it appropriate. If the substitute module is given by a different department then the course convenor must sign off on the module (in addition to the supervisor).			
Six modules should be taken over two semesters, either four in semester one and two in semester two, or three in each semester. No more than 30 credits to be taken at level 6. Credits must total 180.			
You will not be allowed to change modules after week 2 of the semester that the module is taught.			
Supervisor/Convenor's Signature			
Declaration:			
<ul style="list-style-type: none"> • I understand the terms 'Collusion', 'Plagiarism' and 'Fabrication of Results' as defined in the Examination & Assessment Handbook at http://www.sussex.ac.uk/adqe/standards/examsandassessment • I declare that all work submitted for assessment will be solely my work and that reference to the work of others will be properly acknowledged by me. 			
Student's Signature			

I agree that this student can take the following module(s) that are not on the 'recommended' list above.

Supervisor's Signature

For office use only:

Entered by:	Date:
--------------------	--------------

UNIVERSITY OF SUSSEX
DEPARTMENT OF PHYSICS AND ASTRONOMY

MSC IN PHYSICS
MODULE CHOICES COSMOLOGY 2024-25

- **Email this form to mps_pgtooffice@sussex.ac.uk by Friday 20th September 2024 by 12 noon.**
- **If at any point you wish to change a module you must complete a new version of this form.**
- **Please note that the Department reserves the right to withdraw any of these modules.**

Student's first name

Year of Entry

Student's last name.....

Code	Modules	Credit/ Level	Tick here
Semester One			
<i>The following modules are recommended</i>			
900F3	Cosmology	15 (7)	
881F3	General Relativity	15 (7)	
877F3	Quantum Field Theory	15 (7)	
Semester Two			
<i>The following modules are recommended</i>			
879F3	Advanced Cosmology	15 (7)	
<i>You must take TWO of these recommended options, at least one of which should be in the Spring Semester</i>			
889F3	Galactic Astrophysics (Semester One)	15 (7)	
890F3	Data Analysis Techniques (Semester One)	15 (7)	
823G5	Programming through Python (Semester One)	15 (7)	
894F3	Frontiers in Particle Physics (Semester Two)	15 (7)	
902F3	Astrophysical Processes (Semester Two)	15 (6)	
F3244	Stellar and Planetary Physics (Semester Two)	15 (6)	
882F3	Advanced Quantum Field Theory (Semester Two) PRE REQUISITES: 877F3, 885F3	15 (7)	
865G1	Monte Carlo Simulations (Semester Two)	15 (7)	
All Year			
919F3	MSc Project Research Skills	30 (7)	√
920F3	MSc Project P&A	60 (7)	√
Note:			
A recommended module can be exchanged for a different module if the supervisor considers it appropriate. If the substitute module is given by a different department then the course convenor must sign off on the module (in addition to the supervisor).			
Six modules should be taken over two semesters, either four in semester one and two in semester two, or three in each semester. No more than 30 credits to be taken at level 6. Credits must total 180.			
You will not be allowed to change modules after week 2 of the semester that the module is taught.			
Supervisor/Convenor's Signature			
Declaration:			
<ul style="list-style-type: none"> • I understand the terms 'Collusion', 'Plagiarism' and 'Fabrication of Results' as defined in the Examination & Assessment Handbook at http://www.sussex.ac.uk/adqe/standards/examsandassessment • I declare that all work submitted for assessment will be solely my work and that reference to the work of others will be properly acknowledged by me. 			
Student's Signature			

Supervisors

I agree that this student can take the following module/s that are not on the 'recommended' list above:

Supervisor's Signature

For office use only: Entered by:	Date:
---	--------------