

UNIVERSITY OF SUSSEX
DEPARTMENT OF PHYSICS AND ASTRONOMY
MSC IN PARTICLE PHYSICS
MODULE CHOICES FOR THEORETICAL PARTICLE PHYSICS 2022-23

- Email this form to mps_pgtoffice@sussex.ac.uk by Friday 23 September 2022 at 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 You will take the following core modules:			
877F3	Quantum Field Theory 1 (Core)	15 (7)	√
885F3	Further Quantum Mechanics (Core)	15 (7)	√
Semester Two The following modules are recommended:			
882F3	Quantum Field Theory 2 PRE REQUISITE 877F3, 885F3	15 (7)	
901F3	Beyond the Standard Model PRE REQUISITE 877F3	15 (7)	
Plus select TWO of the following recommended options. You should have selected a total of FOUR optional 15-credit modules for the year.			
890F3	Data Analysis Techniques (Semester One)	15 (7)	
F3221	Nuclear and Particle Physics (Semester One)	15 (6)	
900F3	Cosmology (Semester One)	15 (7)	
881F3	General Relativity (Semester One)	15 (7)	
823G5	Programming through Python	15 (7)	
898F3	Programming in C++ (Semester One)	15 (7)	
895F3	Quantum Optics and Quantum Information (Semester One)	15 (7)	
878F3	Symmetry in Particle Physics (Semester One)	15 (7)	
F3214	Particle Physics (Semester Two)	15 (6)	
894F3	Frontiers in Particle Physics (Semester Two)	15 (7)	
880F3	Particle Physics Detector Technology (Semester Two)	15 (7)	
879F3	Advanced Cosmology (Semester Two)	15 (7)	
865G1	Monte Carlo Simulations (Semester Two)	15 (7)	
Year			
904F3	Research Project (MSc Particle Physics)	90 (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 (including the two core modules) should be taken over two semesters, either four in semester one and two in semester two or three in each of the semesters. 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 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:
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UNIVERSITY OF SUSSEX
DEPARTMENT OF PHYSICS AND ASTRONOMY

MSC IN PARTICLE PHYSICS
MODULE CHOICES FOR EXPERIMENTAL PARTICLE PHYSICS 2022-23

- Email this form to mps_pgtooffice@sussex.ac.uk by Friday 23 September 2022 at noon.
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Student's first name

Year of Entry

Student's last name

Code	Modules	Credit/ Level	Tick here
Semester One <i>You will take the following core modules:</i>			
877F3	Quantum Field Theory 1 (Core)	15 (7)	√
885F3	Further Quantum Mechanics (Core)	15 (7)	√
<i>The following module is 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 select ONE of the following recommended options. You should have selected a total of FOUR optional 15-credit modules for the year.			
F3221	Nuclear and Particle Physics (Semester One)	15 (6)	
881F3	General Relativity (Semester One)	15 (7)	
900F3	Cosmology (Semester One)	15 (7)	
898F3	Programming in C++ (Semester One)	15 (7)	
823G5	Object Oriented Programming (Semester One)	15 (7)	
895F3	Quantum Optics and Quantum Information (Semester One)	15 (7)	
878F3	Symmetry in Particle Physics (Semester One)	15 (7)	
F3214	Particle Physics (Semester Two)	15 (6)	
901F3	Beyond the Standard Model (Semester Two) PRE REQUISITE 877F3	15 (7)	
879F3	Advanced Cosmology (Semester Two)	15 (7)	
882F3	Quantum Field Theory 2 (Semester Two) PRE REQUISITE 877F3. 885F3	15 (7)	
865G1	Monte Carlo Simulations (Semester Two)	15 (7)	
Year			
904F3	Research Project (MSc Particle Physics)	90 (7)	√

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Supervisor/Convenor's Signature

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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.....

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Entered by:	Date:
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