

## MPhys with Particle Physics with a Research Year Abroad - Programme Structure

<b>Part 1</b>									
<b>Semester 1</b>					<b>Semester 2</b>				
		ECTS	FHEQ			ECTS	FHEQ		
PHYS1015	†	5	4	Motion and relativity	PHYS1011	†	5	4	Waves, light & quanta
PHYS1017	†	5	4	Physics Skills 1	PHYS1013	†	5	4	Energy & matter
PHYS1022	†	5	4	Electricity and Magnetism	PHYS1019	†	5	4	Physics Skills 2
MATH1006	†	7.5	4	Introduction to Mathematical Methods	MATH1007	†	7.5	4	Mathematical Methods for Physical Science
OPTION		7.5	4/5	1 option module	PHYS1201	†	7.5	4/5	Physics Skills - Programming and Data

<b>Part 2</b>									
<b>Semester 1</b>					<b>Semester 2</b>				
		ECTS	FHEQ			ECTS	FHEQ		
PHYS2006	†	7.5	5	Classical Mechanics	PHYS2001	†	7.5	5	Electromagnetism
PHYS2022	†	7.5	5	Physics from Evidence 1	PHYS2003	†	7.5	5	Quantum Physics
PHYS2023	†	7.5	5	Wave Physics	PHYS2024	†	7.5	5	Statistical Mechanics
OPTION		7.5	4/5/6	1 option module	OPTION		7.5	4/5/6	1 option module

<b>Part 3</b>									
<b>Semester 1</b>					<b>Semester 2</b>				
		ECTS	FHEQ			ECTS	FHEQ		
PHYS3007	†	7.5	6	Theories of Matter, Space and Time	PHYS3002	†	7.5	6	Nuclei & Particles
PHYS3008	†	7.5	6	Atomic Physics	PHYS3004	†	7.5	6	Crystalline Solids
PHYS6003	†	7.5	7	Advanced Quantum Physics	PHYS6011	†	7.5	7	Particle Physics
OPTION		7.5	5/6/7	1 option module(PHYS6012,PHYS2013 PHYS3003 or PHYS6009recommended)	PHYS6017	‡	7.5	7	Computer Techniques

<b>Part 4</b>									
<b>Semester 1</b>					<b>Semester 2</b>				
		ECTS	FHEQ			ECTS	FHEQ		
PHYS6016	†	60	7	Particle Physics Research Project (continues in semester2)					

FHEQ levels for options are illustrative, other configurations are possible, but must meet university regulations on forward/back-tracking, and final ECTS accumulation for award ( <http://www.calendar.soton.ac.uk/sectionIV/cats.html>)

Status † Core module - must be taken and passed before progression to next level or award  
‡ Compulsory module - must be taken before progression to next level or award