

MPhys THEORETICAL PHYSICS (F344)

Programme offered at: Durham.

Mode of study: this programme is available full-time.

1-2	Foundations of Physics 1		PHYS1122	40
3	Discovery Skills in Physics		<u>PHYS1101</u>	20
4-5	EITHER	Single Mathematics A #	<u>MATH1561</u>	20
		AND Single Mathematics B #	<u>MATH1571</u>	20
	OR	Core Mathematics A #	MATH1012	40
6	One 20 credit open Level 1 module chosen from those offered by any		20	
	Board of Stud	ies		

These modules must be passed at 40% or above in order to progress to the BSc Ordinary degree in Physics or Physics and Astronomy at the next Level.

LEVEL 2 (Diploma)

1	Foundations of Physics 2	PHYS2511	20	
2	Mathematical Methods in Physics	PHYS2521	20	
3	Thermal and Condensed Matter Physics	PHYS2531	20	
4	Stars and Galaxies	PHYS2541	20	
5	Laboratory Skills and Practice	PHYS2551	20	
6	Computational Physics and Electronics	PHYS2571	20	

Notes:

Students who have successfully completed Levels 1 and 2 of the MPhys in Theoretical Physics in accordance with the Core Regulations may, with the permission of the Chair of the Board of Studies in Physics, change their registration to the MPhys in Physics or Physics and Astronomy;

Students who fail to achieve the standard required under the Core Regulations for progression to Level 3 of the MPhys in Theoretical Physics but who achieve the standard required for progression to Level 3 of a Bachelors programme may progress to Level 3 of the BSc in Physics or Physics and Astronomy in the Honours or Ordinary stream in accordance with the Core Regulations;

A student who is qualified to progress from Level 2 to Level 3 of the MPhys in Theoretical Physics but wishes to transfer to Level 3 of the BSc in Physics or Physics and Astronomy shall be permitted to do so.

LEVEL	3 (Degree)			
1-2	Foundations of Physics 3		PHYS3522	40
3	Key Skills A		PHYS3561	20
4	Theoretical Physics		<u>PHYS3551</u>	20
5	Mathematics Workshop		PHYS3591	20
6	EITHER	One 20 credit module chosen from List A		
	OR	One 20 credit module chosen from those offered		
		by another Board of Studies, subject to approval		
		by the Chair of the Board of Studies in Physics		

Notes:

Students whose achievement at the end of Level 3 does not qualify them to proceed to Level 4 may be awarded the degree of Bachelor of Physics (BPhys) at either Honours or Ordinary level in accordance with the Core Regulations for the award of a Bachelors degree.

LEVEI	4 (Degree)		
1-3	Project	<u>PHYS4213</u>	60
4	EITHER	Advanced Theoretical Physics PHYS4141	20
	OR	Particle Theory PHYS4181	20
5-6	6 EITHER Modules to the value of 40 credits chosen from List B		
	OR	One 20 credit module chosen from List B	
		AND one 20 credit module chosen from those	
		offered by another Board of Studies, subject to	
		approval by the Chair of the Board of Studies in	
		Physics	
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Notes:

Students whose achievement at the end of Level 4 does not qualify them to be awarded the degree of MPhys in

Theoretical Physics may be awarded the degree of Bachelor of Physics (BPhys) with Honours in accordance with the Core Regulations for the award of a Bachelors degree. This programme is accredited by the Institute of Physics until February 2014.

MODULE LISTS: PHYSICS

LIST A

Condensed Matter Physics	<u>PHYS3531</u>	20
Astrophysics	<u>PHYS3541</u>	20
Theoretical Physics	<u>PHYS3551</u>	20
LIST B		
Condensed Matter Physics 4	<u>PHYS4111</u>	20
Atomic and Optical Physics	<u>PHYS4121</u>	20
Astrophysics 4	<u>PHYS4131</u>	20
Advanced Theoretical Physics	<u>PHYS4141</u>	20
Advanced Condensed Matter Physics	<u>PHYS4151</u>	20
Advanced Astrophysics	<u>PHYS4161</u>	20
Particle Theory	<u>PHYS4181</u>	20
Theoretical Physics 4	<u>PHYS4191</u>	20
Theoretical Astronomy	PHYS4201	20
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