MPhys THEORETICAL PHYSICS (F344)

Programme offered at: Durham.

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

LEVEL 1 (Certificate)

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

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		PHYS3551	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.

LEVEL 4 (Degree)

1-3	Project		PHYS4213	60
4	EITHER	Advanced Theoretical Physics	PHYS4141	20
	OR	Particle Theory	PHYS4181	20
5-6	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		

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 2009.

MODULE LISTS: PHYSICS

LIST A

Condensed Matter Physics	PHYS3531	20
Astrophysics	PHYS3541	20
Theoretical Physics	PHYS3551	20

LIST B

Condensed Matter Physics 4	PHYS4111	20
Atomic and Optical Physics	PHYS4121	20
Astrophysics 4	PHYS4131	20
Advanced Theoretical Physics	PHYS4141	20
Advanced Condensed Matter Physics	PHYS4151	20
Advanced Astrophysics	PHYS4161	20
Particle Theory	PHYS4181	20
Theoretical Physics 4	PHYS4191	20
Theoretical Astronomy	PHYS4201	20
