

These programme regulations should be read in conjunction with the University's [core regulations for undergraduate programmes](#), and the [marking and classification conventions for undergraduate programmes](#).

MPhys Theoretical Physics (F344)

1. This programme is available at Durham City, in a full-time mode of study.

Level 1 (Certificate)

2. Candidates shall study and be assessed in the following modules:

		Credit value
Foundations of Physics 1 #	PHYS1122	40
Discovery Skills in Physics	PHYS1101	20

3. Either: Candidates shall also study and be assessed in the following modules:

		Credit value
Single Mathematics A #	MATH1561	20
Single Mathematics B #	MATH1571	20

Or: Candidates shall also study and be assessed in the following modules:

		Credit value
Linear Algebra 1 #	MATH1071	20
Calculus and Probability 1 #	MATH1061	20

4. Candidates shall also study and be assessed in modules to the value of 20 credits from those offered by any board of studies.

Level 2 (Diploma)

5. Candidates shall study and be assessed in the following modules:

		Credit value
Foundations of Physics 2A	PHYS2581	20
Foundations of Physics 2B	PHYS2591	20
Mathematical Methods in Physics	PHYS2611	20
Stars and Galaxies	PHYS2621	20
Theoretical Physics 2	PHYS2631	20
Laboratory Skills and Electronics	PHYS2641	20

Level 3 (Degree)

6. Candidates shall study and be assessed in the following modules:

		Credit value
Foundations of Physics 3A	PHYS3621	20
Foundations of Physics 3B	PHYS3631	20
Theoretical Physics 3	PHYS3661	20
Key Skills A	PHYS3561	20
Mathematics Workshop	PHYS3591	20

7. Candidates shall also study and be assessed in modules to the value of 20 credits from List A (subject to timetable compatibility):

List A:		Credit value
Team Project	PHYS3581	20
Laboratory Project	PHYS3601	20
Physics into Schools	PHYS3611	20
Advanced Physics 3	PHYS3641	20
Planets and Cosmology 3	PHYS3651	20
Modules to the value of 20 credits from another board of studies		20

Level 4 (Degree)

8. Candidates shall study and be assessed in the following modules:
- | | | Credit value |
|---------|--------------------------|---------------------|
| Project | PHYS4213 | 60 |
9. Candidates shall also study and be assessed in modules to the value of 20 credits from List B:
- List B:**
- | | | Credit value |
|------------------------------|--------------------------|---------------------|
| Advanced Theoretical Physics | PHYS4141 | 20 |
| Particle Theory | PHYS4181 | 20 |
10. Candidates shall also study and be assessed in modules to the value of 40 credits from List C:
- List C:**
- | | | Credit value |
|--|--------------------------|---------------------|
| Atoms, Lasers and Qubits | PHYS4121 | 20 |
| Advanced Theoretical Physics | PHYS4141 | 20 |
| Advanced Condensed Matter Physics | PHYS4151 | 20 |
| Advanced Astrophysics | PHYS4161 | 20 |
| Particle Theory | PHYS4181 | 20 |
| Theoretical Astrophysics | PHYS4201 | 20 |
| Advanced Physics 4 | PHYS4221 | 20 |
| Planets and Cosmology 4 | PHYS4231 | 20 |
| Modules to the value of 20 credits from another board of studies | | 20 |

Assessment, progression and award

11. Modules marked with a # must be passed at 40% or above in order to progress to the Ordinary Degree at the next level.
12. Students who have successfully completed Levels 1 and 2 of the MPhys Theoretical Physics in accordance with the Core Regulations may, with the permission of the Chairman or Chairwoman of the Board of Studies in Physics, change their registration to the MPhys Physics or MPhys Physics and Astronomy.
13. Students who fail to achieve the standard required under the Core Regulations for progression to Level 3 of the MPhys 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 Physics in the Honours or Ordinary stream in accordance with the Core Regulations.
14. A student who is qualified to progress from Level 2 to Level 3 of the MPhys Theoretical Physics but wishes to transfer to Level 3 of the BSc Physics shall be permitted to do so.
15. Students whose achievement at the end of Level 3 does not qualify them to proceed to Level 4 may be awarded the degree of BSc Physics at either Honours or Ordinary level in accordance with the Core Regulations for the award of a Bachelors degree.
16. Students whose achievement at the end of Level 4 does not qualify them to be awarded the degree of MPhys Theoretical Physics may be awarded the degree of Bachelor of Science (BSc) with Honours in accordance with the Core Regulations for the award of a Bachelors degree.

Professional accreditation

17. This programme is accredited by the Institute of Physics until February 2014.