

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 Physics with year abroad (F306); MPhys Physics with placement (F309)**

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:

|                               |                          | <b>Credit value</b> |
|-------------------------------|--------------------------|---------------------|
| Foundations of Physics 1 #    | <a href="#">PHYS1122</a> | 40                  |
| Discovery Skills in Physics # | <a href="#">PHYS1101</a> | 20                  |

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

|                        |                          | <b>Credit value</b> |
|------------------------|--------------------------|---------------------|
| Single Mathematics A # | <a href="#">MATH1561</a> | 20                  |
| Single Mathematics B # | <a href="#">MATH1571</a> | 20                  |

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

|                    |                          | <b>Credit value</b> |
|--------------------|--------------------------|---------------------|
| Linear Algebra I # | <a href="#">MATH1071</a> | 20                  |
| Calculus I #       | <a href="#">MATH1061</a> | 20                  |

4. Candidates shall also study and be assessed in modules to the value of 20 credits offered by any board of studies (including appropriate credit-bearing language modules offered by the University's Centre for Foreign Language Study).

#### **Level 2 (Diploma)**

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

|                                     |                          | <b>Credit value</b> |
|-------------------------------------|--------------------------|---------------------|
| Foundations of Physics 2A #         | <a href="#">PHYS2581</a> | 20                  |
| Foundations of Physics 2B #         | <a href="#">PHYS2591</a> | 20                  |
| Mathematical Methods in Physics #   | <a href="#">PHYS2611</a> | 20                  |
| Laboratory Skills and Electronics # | <a href="#">PHYS2641</a> | 20                  |

6. Candidates shall also study and be assessed in modules to the value of 40 credits from List A:

| <b>List A:</b>        |                          | <b>Credit value</b> |
|-----------------------|--------------------------|---------------------|
| Stars and Galaxies    | <a href="#">PHYS2621</a> | 20                  |
| Theoretical Physics 2 | <a href="#">PHYS2631</a> | 20                  |
| Physics in Society    | <a href="#">PHYS2651</a> | 20                  |

#### **Level 3 (Degree)**

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

|                             |                          | <b>Credit value</b> |
|-----------------------------|--------------------------|---------------------|
| Foundations of Physics 3A # | <a href="#">PHYS3621</a> | 20                  |
| Foundations of Physics 3B   | <a href="#">PHYS3631</a> | 20                  |
| Computing Project           | <a href="#">PHYS3561</a> | 20                  |

8. Candidates shall also study and be assessed in modules to the value of 60 credits from List B (subject to timetable compatibility):

| <b>List B:</b>          |                          | <b>Credit value</b> |
|-------------------------|--------------------------|---------------------|
| Either: Team Project    | <a href="#">PHYS3581</a> | 20                  |
| Or: Advanced Laboratory | <a href="#">PHYS3601</a> | 20                  |
| Mathematics Workshop    | <a href="#">PHYS3591</a> | 20                  |
| Physics into Schools    | <a href="#">PHYS3611</a> | 20                  |
| Planets and Cosmology 3 | <a href="#">PHYS3651</a> | 20                  |

|                                     |                          |    |
|-------------------------------------|--------------------------|----|
| Theoretical Physics 3               | <a href="#">PHYS3661</a> | 20 |
| Condensed Matter Physics 3          | <a href="#">PHYS3711</a> | 20 |
| Modern Atomic and Optical Physics 3 | <a href="#">PHYS3721</a> | 20 |

Level 2 or Level 3 modules to the value of 20 credits offered by another Board of Studies, or appropriate credit-bearing Level 1 language modules to the value of 20 credits offered by the University's Centre for Foreign Language Study.

#### Level 4 (Degree)

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

|         |                          |                           |
|---------|--------------------------|---------------------------|
| Project | <a href="#">PHYS4213</a> | <b>Credit value</b><br>60 |
|---------|--------------------------|---------------------------|

10. Candidates shall also study and be assessed in modules to the value of 60 credits from Lists C and D, with no more than 40 credits from List D:

|                                                                                 |                          |                     |
|---------------------------------------------------------------------------------|--------------------------|---------------------|
| <b>List C:</b>                                                                  |                          | <b>Credit value</b> |
| Atoms, Lasers and Qubits                                                        | <a href="#">PHYS4121</a> | 20                  |
| Advanced Condensed Matter Physics                                               | <a href="#">PHYS4151</a> | 20                  |
| Advanced Theoretical Physics                                                    | <a href="#">PHYS4141</a> | 20                  |
| Particle Theory                                                                 | <a href="#">PHYS4181</a> | 20                  |
| Advanced Astrophysics                                                           | <a href="#">PHYS4161</a> | 20                  |
| Theoretical Astrophysics                                                        | <a href="#">PHYS4201</a> | 20                  |
| Level 4 modules to the value of 20 credits offered by another Board of Studies. |                          |                     |

|                                     |                          |                     |
|-------------------------------------|--------------------------|---------------------|
| <b>List D:</b>                      |                          | <b>Credit value</b> |
| Planets and Cosmology 4             | <a href="#">PHYS4231</a> | 20                  |
| Theoretical Physics 4               | <a href="#">PHYS4241</a> | 20                  |
| Condensed Matter Physics 4          | <a href="#">PHYS4271</a> | 20                  |
| Modern Atomic and Optical Physics 4 | <a href="#">PHYS4281</a> | 20                  |

#### Assessment, progression and award

- Modules marked with the # symbol must be passed at 40% or above in order to progress to the next level of study.
- A student who is qualified to progress from Level 2 to Level 3 of the MPhys Physics with year abroad/placement but wishes to transfer to Level 3 of the BSc Physics with year abroad/placement shall be permitted to do so.
- 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 with year abroad/placement at either Honours or Ordinary level in accordance with the Core Regulations for the award of a Bachelors degree.
- Students whose achievement at the end of Level 4 does not qualify them to be awarded the degree of MPhys Physics with year abroad/placement may be awarded the degree of Bachelor of Science (BSc) with year abroad/placement with Honours in accordance with the Core Regulations for the award of a Bachelors degree.

#### Year Abroad/Placement – Year 3 or Year 4 or Year 5

- Students admitted to a Department of Physics degree programme (F300, F301, FF3N or F344) are able to apply to transfer to the MPhys Physics with year abroad/placement programme (F306 / F309). Students undertaking the MPhys Physics with year abroad programme (F306) will undertake an approved exchange in an overseas university taking a course of study chosen in consultation with the Department's Exchange Coordinator and the host institution. Students undertaking the MPhys Physics with placement programme (F309) will undertake an approved work or training placement which would normally be based abroad.
- Candidates wishing to transfer to the MPhys Physics with year abroad/placement programme (F306 / F309) to undertake the year abroad/placement as their third year must:
  - have successfully completed Level 1 of their existing programme (F300, F301, FF3N or F344) and progressed to Level 2 of the Honours programme, and

- b. during the second term of Level 2 study, apply to the Department of Physics to be admitted to the MPhys Physics with year abroad/placement programme (F306 / F309), and subsequently have their application approved; and
  - c. secure an exchange opportunity with an approved international partner institution of the University/secure a placement opportunity with an approved employer or institution; and
  - d. successfully complete Level 2 of their existing programme (F300, F301, FF3N or F344) so as to be eligible to progress to Level 3 of the MPhys Honours programme; and
  - e. demonstrate satisfactory command of the language of the host country.
17. Students who undertake the year abroad/placement as their third year and whom the Board of Examiners in Physics deems to have completed the year abroad/placement satisfactorily will continue to Level 3 of the MPhys Physics with year abroad/placement (F306 / F309), or may transfer to the BSc Physics with year abroad/placement programme (F300A / F311) if the requirements of this degree have been met. Students who undertake the year abroad/placement as their third year but who are deemed by the Board of Examiners to have failed the year abroad/placement will not be permitted to continue on the MPhys Physics with year abroad/placement (F306 / F309) programme, but must instead proceed to Level 3 of another MPhys programme (F301, FF3N or F344), or may transfer to the BSc Physics programme (F300) if the requirements of this degree have been met.
18. Candidates wishing to transfer to the MPhys Physics with year abroad/placement programme (F306 / F309) to undertake the year abroad/placement as their fourth year must:
  - a. have successfully completed Level 2 of their existing programme (F301, FF3N or F344) and progressed to Level 3 of the Honours programme, and
  - b. during the second term of Level 3 study, apply to the Department of Physics to be admitted to the MPhys Physics with year abroad/placement programme (F306 / F309), and subsequently have their application approved; and
  - c. secure an exchange opportunity with an approved international partner institution of the University; and
  - d. successfully complete Level 3 of their existing programme (F301, FF3N or F344) so as to be eligible to progress to Level 4; and
  - e. demonstrate satisfactory command of the language of the host country.
19. Students who undertake the year abroad/placement as their fourth year and whom the Board of Examiners in Physics deems to have completed the year abroad/placement satisfactorily will continue to Level 4 of the MPhys Physics with year abroad/placement (F306 / F309). Students who undertake the year abroad/placement as their fourth year but who are deemed by the Board of Examiners to have failed the year abroad/placement will not be permitted to continue on the MPhys Physics with year abroad/placement (F306 / F309) programme, but must instead proceed to Level 4 of another MPhys programme (F301, FF3N or F344).
20. Candidates wishing to transfer to the MPhys Physics with year abroad/placement programme (F306/F309) to undertake the year abroad/placement as their fifth year must:
  - a. have successfully completed Level 3 of their existing programme (F301, FF3N or F344) and progressed to Level 4, and
  - b. during the second term of Level 4 study, apply to the Department of Physics to be admitted to the MPhys Physics with year abroad/placement programme (F306/F309), and subsequently have their application approved; and
  - c. secure an exchange opportunity with an approved international partner institution of the University/secure a placement opportunity with an approved employer or institution; and
  - d. successfully complete Level 4 of their existing programme (F301, FF3N or F344) so as to be eligible to graduate with MPhys Honours; and
  - e. demonstrate satisfactory command of the language of the host country.
21. Students who undertake the year abroad/placement as their fifth year and whom the Board of Examiners in Physics deems to have completed the year abroad/placement satisfactorily will be eligible for the award of MPhys Physics with year abroad/placement (F306/F309). Students who

undertake the year abroad/placement as their fifth year but who are deemed by the Board of Examiners to have failed the year abroad/placement may be awarded the degree of MPhys Physics, MPhys Physics and Astronomy or MPhys Theoretical Physics according to the programme of modules they took in the previous years of study.

**Professional accreditation**

22. These programmes are accredited by the Institute of Physics until June 2029.