

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](#).

### **BSc Mathematics and Physics (G427)**

### **BSc Mathematics and Physics with Year Abroad (G428)**

### **BSc Mathematics and Physics with Placement (G429)**

1. These programmes are available at Durham City, in a full-time mode of study.
2. All module selections must be timetable compatible and approved by the Director of Natural Sciences or by their nominee to ensure a credible pathway through to 120 credits of Year 3 modules.

#### **Level 1 (Certificate)**

3. Candidates shall 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
Analysis I *	<a href="#">MATH1051</a>	20
Foundations of Physics 1 #	<a href="#">PHYS1122</a>	40
Discovery Skills in Physics *	<a href="#">PHYS1101</a>	20

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

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

		<b>Credit value</b>
Analysis in Many Variables II	<a href="#">MATH2031</a>	20
Complex Analysis II	<a href="#">MATH2011</a>	20
Foundations of Physics 2A*	<a href="#">PHYS2581</a>	20
Foundations of Physics 2B	<a href="#">PHYS2591</a>	20

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

		<b>Credit value</b>
Mathematical Physics II	<a href="#">MATH2071</a>	20
Modules from Level 2 BSc Physics (F300) regulations		20

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

		<b>Credit value</b>
Theoretical Physics 2 *	<a href="#">PHYS2631</a>	20
Modules from Level 2 BSc Mathematics (G100) regulations		20

#### **Year 3 (with Year Abroad)**

6. Students admitted to the BSc Mathematics and Physics (G427) can apply to transfer to the BSc Mathematics and Physics with Year Abroad programme (G428). Students undertaking the BSc Mathematics and Physics with Year Abroad programme (G428) will undertake an approved exchange in an overseas university taking a course of study chosen in consultation with the Director of Natural Sciences or their nominee and the host institution.
7. Candidates wishing to transfer to the BSc Mathematics and Physics with Year Abroad (G428) must:
  - a. have successfully completed Level 1 of the BSc Mathematics and Physics (G427) and progressed to Level 2 of the Honours programme; and
  - b. during the first term of Level 2 study, apply to the Director of Natural Sciences or their nominee to be admitted to the BSc Mathematics and Physics (with Year Abroad) (G428); and
  - c. secure an exchange opportunity with an approved international partner institution of the University; and

- d. successfully complete Level 2 of the BSc Mathematics and Physics (G427) to be eligible to progress to Level 3 of the BSc Mathematics and Physics (G427) Honours programme; and
  - e. register for the module “Natural Sciences Overseas BSc (NSCI 3986)”
8. Candidates who the Board of Examiners deem to have made satisfactory progress on the year abroad will continue to Level 3 of the BSc Mathematics and Physics with Year Abroad (G428). Students who have not made satisfactory progress on the year abroad will not be permitted to continue on the BSc Mathematics and Physics with Year Abroad (G428) programme, but must instead proceed to Level 3 of the BSc Mathematics and Physics (G427) programme.

**Year 3 (with Placement)**

9. Candidates admitted to the BSc Mathematics and Physics (G427) can apply to transfer to the BSc Mathematics and Physics with Placement (G429). Students undertaking the BSc Mathematics and Physics with Placement (G429) will undertake an approved placement chosen in consultation with the Director of Natural Sciences or their nominee and the host partner.
10. Candidates wishing to transfer to the BSc Mathematics and Physics with Placement (G429) as their third year must:
- a. Have successfully completed Level 1 of the BSc Mathematics and Physics (G427) and progressed to Level 2 of the Honours BSc programme; and
  - b. During the first term of Level 2 study, the student must discuss their intention to apply with the Director of Natural Sciences or their nominee in order to be admitted to the BSc Mathematics and Physics with Placement (G429) and receive approval by the Director of Natural Sciences or their nominee; and
  - c. Secure a year-long placement opportunity (40 weeks or more) approved by the Director of Natural Sciences or their nominee with an approved employer; and
  - d. Successfully complete Level 2 to be eligible to progress to Level 3 of the BSc Mathematics and Physics (G427) Honours programme; and
  - e. register for the module “Natural Sciences Placement BSc (NSCI 3976)”
11. Candidates who the Board of Examiners deem to have made satisfactory progress on the placement will continue to Level 3 of the BSc Mathematics and Physics with Placement (G429). Students who have not made satisfactory progress on the placement will not be permitted to continue on the BSc Mathematics and Physics with Placement (G429) programme, but must instead proceed to Level 3 of the BSc Mathematics and Physics (G427) programme.

**Level 3 (Degree)**

12. Candidates shall study and be assessed in:

Modules from Level 3 BSc Mathematics (G100) regulations	<b>Credit value</b>
	40

13. Candidates shall also study and be assessed in the following module:

Foundations of Physics 3A	<a href="#">PHYS3621</a>	<b>Credit value</b>
		20

14. **Either:** If the candidates studied Theoretical Physics 2 (PHYS 2631) at Level 2, they shall also study and be assessed in the following module:

Theoretical Physics 3	<a href="#">PHYS3661</a>	<b>Credit value</b>
		20

- Or:** If the candidates studied Mathematical Physics II (MATH 2071) at Level 2, they shall also study and be assessed in the following modules:

Modules from Level 3 BSc Physics (F300) regulations	<b>Credit value</b>
	20

15. Candidates are required to take Capstone module(s) to the value of at least 20 credits and no more than 60 credits from the following List A:

<b>List A:</b>		<b>Credit value</b>
Project III	<a href="#">MATH3382</a>	40
Mathematics into Schools	<a href="#">MATH3481</a>	20
Science Enterprise	<a href="#">NSCI3001</a>	20
Computing Project	<a href="#">PHYS3561</a>	20
Team Project	<a href="#">PHYS3581</a>	20
Advanced Laboratory	<a href="#">PHYS3601</a>	20
Physics Into Schools	<a href="#">PHYS3611</a>	20
Laboratory Skills and Electronics 3	<a href="#">PHYS3681</a>	20
Physics in Society 3	<a href="#">PHYS3691</a>	20
BSc Project	<a href="#">PHYS3701</a>	20

Note that candidates selecting modules from List A may also satisfy Paragraph 12 or 14.

16. Candidates shall also study and be assessed in any remaining credits from List B:

<b>List B:</b>	<b>Credit value</b>
Modules from Level 3 BSc Physics (F300) regulations	
Modules from Level 3 BSc Mathematics (G100) regulations	

### **Assessment, progression and award**

17. Modules marked with the # symbol must be passed at no less than 40% in order to progress to the next level of study.
18. Modules marked with the \* symbol must be passed at no less than 40% in order to progress to the next level of study. Students who have not passed will not be permitted to continue on the BSc Mathematics and Physics (G427) programme, but must instead proceed to Level 2 of the BSc Natural Sciences (CFG0) programme.