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:

		Credit value
Linear Algebra I #	MATH1071	20
Calculus I #	MATH1061	20
Analysis I *	MATH1051	20
Foundations of Physics 1 #	PHYS1122	40
Discovery Skills in Physics *	PHYS1101	20

Level 2 (Diploma)

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

		Credit value
Analysis in Many Variables II	MATH2031	20
Complex Analysis II	MATH2011	20
Foundations of Physics 2A*	PHYS2581	20
Foundations of Physics 2B	PHYS2591	20

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

		Credit value
Mathematical Physics II	MATH2071	20
Modules from Level 2 BSc Physics (F300) regulations		20

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

		Credit value
Theoretical Physics 2 *	PHYS2631	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:

		Credit value
Modules from Level 3 BSc Mathematics (G100) regulations		40

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

		Credit value
Foundations of Physics 3A	PHYS3621	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:

		Credit value
Theoretical Physics 3	PHYS3661	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:

	Credit value
Modules from Level 3 BSc Physics (F300) regulations	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:

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

List B:	Credit value
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.