

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](#).

[First intake 2026-27]

MSci Chemistry and Mathematics (FG12)

MSci Chemistry and Mathematics with Placement (FG15)

1. This programme is 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 4 modules.

Level 1 (Certificate)

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

		Credit value
Core Chemistry 1 #	CHEM1078	30
Practical Chemistry 1A *	CHEM1087	10
Practical Chemistry 1B	CHEM1107	10
Linear Algebra I #	MATH1071	20
Calculus I #	MATH1061	20
Analysis I *	MATH1051	20
Dynamics and Relativity I *	MATH1627	10

Level 2 (Diploma)

4. Candidates shall study and be assessed in:

		Credit value
Core Chemistry 2 #	CHEM2012	40
Properties of Molecules *	CHEM2097	10
Practical Chemistry 2 – Measurement *	CHEM2157	10
Complex Analysis II	MATH2791	20
Mathematical Methods II *	MATH2811	20
Methods of Mathematical Physics II *	MATH2741	20

Level 3 (Degree)

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

		Credit value
Chemical Physics 3 *	CHEM3411	20
Computational Chemical Physics *	CHEM3151	20
Molecules and their Interactions *	CHEM3137	10
Practical Chemistry 3 – Measurement	CHEM3467	10
Quantum Mechanics III	MATH3111	20

6. Candidates shall also study and be assessed in 40 credits from those offered by the Department of Mathematical Sciences at Level 3 (including the Mathematical Sciences (MATH) list and Science Enterprise (NSCI 3001).

Placement – Year 3 or Year 4

7. Candidates admitted to the MSci Chemistry and Mathematics (FG12) can apply to transfer to the MSci Chemistry and Mathematics with Placement (FG15). Students undertaking the MSci Chemistry and Mathematics with Placement (FG15) will undertake an approved placement chosen in consultation with the Director of Natural Sciences or their nominee and the host partner.

8. Candidates wishing to transfer to the MSci Chemistry and Mathematics with Placement (FG15) as their third year must:
 - a. Have successfully completed Level 1 of the MSci Chemistry and Mathematics (FG12) and progressed to Level 2 of the Honours or 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 MSci Chemistry and Mathematics with Placement (FG15) and receive approval by the Director of Natural Sciences or their nominee; and
 - c. Secure a Placement Year opportunity or opportunities comprising at least 40 weeks of professional-level work experience, agreed with the Director of Natural Sciences or their nominee; and
 - d. Successfully complete Level 2 to be eligible to progress to Level 3 of the MSci Chemistry and Mathematics (FG12) Honours programme.
9. Students who the Board of Examiners for Natural Sciences deem to have made satisfactory progress on the placement will continue to Level 3 of the MSci Chemistry and Mathematics with Placement (FG15). Students who have not made satisfactory progress on the placement will not be permitted to continue on the MSci Chemistry and Mathematics with Placement (FG15) programme, but must instead proceed to Level 3 of the MSci Chemistry and Mathematics (FG12) programme.
10. Candidates wishing to transfer to the MSci Chemistry and Mathematics with Placement (FG15) as their fourth year must:
 - a. Have successfully completed Level 2 of the MSci Chemistry and Mathematics (FG12) and progressed to Level 3 of the Honours programme; and
 - b. During the first term of Level 3 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 MSci Chemistry and Mathematics with Placement (FG15) and receive approval by the Director of Natural Sciences or their nominee; and
 - c. Secure a Placement Year opportunity or opportunities comprising at least 40 weeks of professional-level work experience, agreed with the Director of Natural Sciences or their nominee; and
 - d. Successfully complete Level 3 of the MSci Chemistry and Mathematics (FG12) programme to be eligible to progress to Level 4 of the MSci Chemistry and Mathematics (FG12) Honours programme.
 - e. register for the module "Natural Sciences Placement MSCI (NSCI 3996)"
11. Students who the Board of Examiners deem to have made satisfactory progress on the placement will continue to Level 4 of the MSci Chemistry and Mathematics with Placement (FG15). Students who have not made satisfactory progress on the placement will not be permitted to continue on the MSci Chemistry and Mathematics with Placement (FG15) programme, but must instead proceed to Level 4 of the MSci Chemistry and Mathematics (FG12) programme.

Level 4 (Degree)

12. **Either:** Candidates shall study and be assessed in the following module:

Chemistry Research Project	CHEM4494	Credit value 80
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Or: Candidates shall study and be assessed in the following modules:

Advanced Research Concepts in Chemistry	CHEM4481	Credit value 20
Project IV	MATH4072	40
Advanced Computational Chemical Physics 4	CHEM4471	20

13. Candidates shall study and be assessed in:

Modules from Level 4 Master of Mathematics (G103) regulations	Credit value 40
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Assessment, progression and award

14. Modules marked with the # symbol must be passed at no less than 40% in order to progress to the next level of study.
15. 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 MSci in Chemistry and

Mathematics (FG12) programme, but must instead proceed to Level 2 of the MSci Natural Sciences (FGC0) programme.

16. Candidates whose achievement at the end of Level 2 does not qualify them to proceed to Level 3 but who achieves the standard required for progression in accordance with the Core Regulations to Level 3 of a Bachelors programme may progress to an appropriate programme within the suite of Natural Sciences degrees.
17. Candidates whose achievement at the end of Level 3 does not qualify them to proceed to Level 4 will be awarded a BSc in Chemistry and Mathematics in accordance with the Core Regulations.
18. Candidates whose achievement at the end of Level 4 does not qualify them to be awarded the MSci degree will be awarded a BSc in Chemistry and Mathematics in accordance with the Core Regulations.
19. This programme is not available with an additional year to study abroad at a partner institution; however, this does not exclude the opportunity for an individual student to seek a concession to undertake a replacement year at an overseas institution where an appropriate programme of study can be identified and secured by that student in liaison with the University's International Office and subject to the approval of the Director of Natural Sciences.