

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](#).

Master of Chemistry – Industrial Route (F111)

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

Level 1 (Certificate)

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

| | | Credit value |
|---|--------------------------|---------------------|
| Core Chemistry 1 # | CHEM1078 | 30 |
| Practical Chemistry 1A # | CHEM1087 | 10 |
| Mathematical and Experimental Tools required in Chemistry # | CHEM1111 | 20 |
| Introduction to Materials Chemistry # | CHEM1127 | 10 |
| Practical Chemistry 1B # | CHEM1107 | 10 |

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

List A:

| | | Credit value |
|---|--------------------------|---------------------|
| Molecules in Action | CHEM1061 | 20 |
| Single Mathematics A | MATH1561 | 20 |
| Open Level 1 modules up to the value of 40 credits offered by any Boards of Studies (including up to 20 credits of appropriate language modules offered by the University's Centre for Foreign Language Study). | | |

Level 2 (Diploma)

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

| | | Credit value |
|---|--------------------------|---------------------|
| Core Chemistry 2 # | CHEM2012 | 40 |
| Chemistry of the Elements # | CHEM2077 | 10 |
| Practical Chemistry 2 – Integrated # | CHEM2138 | 30 |
| Structure and Reactivity in Organic Chemistry # | CHEM2087 | 10 |
| Properties of Molecules # | CHEM2097 | 10 |

5. Candidates shall also study and be assessed in modules to the value of 20 credits from List B:

List B:

| | | Credit value |
|--|--------------------------|---------------------|
| Biological Chemistry | CHEM2051 | 20 |
| Computational Chemistry | CHEM2061 | 20 |
| With the approval of the Director of Education in Chemistry, Level 1 or Level 2 modules to the value of 20 credits offered by another Board of Studies, including up to 20 credits of appropriate credit-bearing Level 1 language modules offered by the University's Centre for Foreign Language Study. | | |

Level 3 (Degree)

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

| | | Credit value |
|-------------------------------------|--------------------------|---------------------|
| Core Chemistry 3 # | CHEM3012 | 40 |
| Chemistry Literature Perspective | CHEM3187 | 10 |
| Practical Chemistry 3 – integrated | CHEM3451 | 20 |
| Inorganic Concepts and Applications | CHEM3097 | 10 |
| Advanced Organic Chemistry | CHEM3117 | 10 |
| Molecules and their Interactions | CHEM3137 | 10 |

7. Candidates shall also study and be assessed in modules to the value of 20 credits from List C:

| List C: | | Credit value |
|----------------------------------|--------------------------|---------------------|
| Materials Chemistry | CHEM3051 | 20 |
| Advanced Computational Chemistry | CHEM3071 | 20 |
| Biological Chemistry | CHEM2051 | 20 |
| Computational Chemistry | CHEM2061 | 20 |
| Advanced Biological Chemistry | CHEM3421 | 20 |
| Chemistry into Schools | CHEM3081 | 20 |

Level 4 (Degree)

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

| | | Credit value |
|-----------------------------|--------------------------|---------------------|
| External Research Project ~ | CHEM4375 | 100 |

9. Candidates shall also study and be assessed in modules to the value of 20 credits from List D:

| List D: | | Credit value |
|---|--------------------------|---------------------|
| Frontiers in Molecular Assembly | CHEM4311 | 20 |
| Advanced Research Concepts in Chemistry | CHEM4481 | 20 |

Assessment, progression and award

- Students who have successfully completed the first two Levels of the Master of Chemistry (Industrial Route) in accordance with the Core Regulations may, with the permission of the Chair of the Board of Studies in Chemistry, change their registration to the Master of Chemistry (International Route) F102 or Master of Chemistry F105.
- Students who fail to achieve the standard required under the Core Regulations for progression to Level 3 of the MChem (Industrial Route) but who achieve the standard required for progression to Level 3 of a Bachelors programme may progress to Level 3 of the BSc Chemistry in accordance with the Core Regulations
- A student who is qualified to progress from Level 2 to Level 3 of the MChem (Industrial Route) but wishes to transfer to Level 3 of the BSc Chemistry 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 Bachelor of Chemistry (BChem) at either Honours or Ordinary level in accordance with the Core Regulations for the award of a Bachelors degree.
- Modules marked with the ~ symbol must be passed at 40% or above for the award of an honours degree. A mark of 30-39% cannot be compensated. Modules marked with the # symbol must be passed at 40% or above to progress to the next level of study.
- Students who have successfully completed the first three Levels of the Master of Chemistry (Industrial Route) in accordance with the Core Regulations may, with the permission of the Chair of the Board of Studies in Chemistry, change their registration to MChem (F105).
- CHEM4375 includes a minimum of 20 weeks of tuition conducted at an industrial location and May/ June assessment in Durham. Students are also expected to engage with the learning and teaching activities for their chosen taught module on a regular basis while on their placement.
- Students whose achievement at the end of Level 4 does not qualify them to be awarded the degree of MChem may be awarded the degree of Bachelor of Chemistry (BChem) with Honours in accordance with the Core Regulations for the award of a Bachelors degree.

Professional accreditation

- This programme is accredited by the Royal Society of Chemistry for students entering Level 1 up to and including October 2025 as satisfying the academic requirements for the award of Chartered Chemist (CChem) for holders of first- or second-class honours degrees.