

Programme Regulations: 2024/25

Programme Title: Degree of Master of Science in Chemistry
Code: 5371F

Notes

- (i) These programme regulations should be read in conjunction with the University's Taught Programme Regulations.
- (ii) All optional modules are offered subject to the constraints of the timetable and to any restrictions on the number of students who may be taught on a particular module. Not all modules may be offered in all years and they are listed subject to availability.
- (iii) A compulsory module is a module which a student must take.
- (iv) All modules are delivered in Linear mode unless stated otherwise as Block, eLearning or distance learning.
- (v) Please discuss with the Degree Programme Director before choosing your optional modules.

1. Programme Structure

- (a) The programme is available for study in full-time mode only.
- (b) The period of study for full-time mode shall be one year starting in September. The 80 credit project will begin once suitable training has been received and appropriate modules completed.
- (c) The programme comprises modules to a credit value of 180.
- (d) All candidates shall take the following compulsory modules:

| Code | Descriptive title | Total Credits | Credits S1 | Credits S2 | Credits S3 | Level | Mode |
|----------------------|---|---------------|------------|------------|------------|-------|---|
| NES8800 | Research Skills and Development | 20 | 10 | 10 | | 7 | |
| NES8808 | Synthetic Methodology for Drugs | 20 | 20 | | | 7 | |
| NES8809 | Biopharmaceuticals as therapeutics | 10 | | 10 | | | |
| NES8810 | Recent Advances in Chemistry Research | 20 | 10 | 10 | | 7 | Linear in Semester 1 and block/linear in Semester 2 |
| NES8811 [‡] | Contemporary Inorganic and Physical Chemistry | 20 | 10 | 10 | | 7 | |
| NES8012 | Research Dissertation Project | 80 | | 25 | 55 | 7 | |

[‡] Previous BSc graduates of Newcastle University will not take NES8811 Contemporary Inorganic and Physical Chemistry.

- (e) *Semester 1 optional modules*
 - (i) Non BSc Chemistry Newcastle University Candidates shall take 10 credits of optional modules in Semester 1 from the following list:
 - (ii) Previous BSc Chemistry graduates of Newcastle University shall take 30 credits of optional modules in Semester 1 from the following list for a total of 70 credits in S1 and 55 credits in S2:

| Code | Descriptive title | Total Credits | Credits S1 | Credits S2 | Credits S3 | Level | Mode |
|---------|--|---------------|------------|------------|------------|-------|------|
| NES8405 | Chemistry Far From Equilibrium | 10 | 10 | | | 7 | |
| NES8406 | Contemporary Catalysis: Principles and Applications | 10 | 10 | | | 7 | |
| NES8407 | Exploring d and f block chemistry: applications and structural methods | 10 | 10 | | | 7 | |

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|---------|--|----|----|--|--|---|--|
| NES8408 | Energy and Materials | 10 | 10 | | | 7 | |
| NES8804 | Proteins as Drug Targets: structure, function, and molecular modelling | 10 | 10 | | | 7 | |
| NES8806 | Selectivity and Stereocontrol in Organic Synthesis | 10 | 10 | | | 7 | |
| NES8807 | Pericyclic and radical reactions | 10 | 10 | | | 7 | |

* Please discuss with the Degree Programme Director before choosing your modules.

2. Assessment methods

Details of the assessment pattern for each module are explained in the module outline forms.