

**Programme Regulations: 2024/25****Programme Title: Degree of Master of Chemistry with Honours in Chemistry****UCAS Code: F103****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 is required to study.
- (iv) If a candidate meets the requirements for the three-year degree, BSc Honours in Chemistry (F100), they may transfer to that programme at any time before the start of Stage 3.
- (v) Programme transfers for Tier 4 students may be restricted by current Tier 4 rules. Please refer to the Visa Team for advice.

**1. Stage 1**

(a) All candidates shall take the following compulsory modules:

Code	Descriptive title	Total Credits	Credits Sem 1	Credits Sem 2	Level
NES1400	Chemical Laboratory Skills 1	20	10	10	4
NES1401	Chemical Skills and Professionalism	10	10		4
NES1402	Fundamentals of Organic Chemistry	20	10	10	4
NES1403	Fundamentals of Inorganic Chemistry	20	10	10	4
NES1404	Fundamentals of Physical Chemistry	20		20	4
NES1406	General Chemistry	10	10		4

**A. Candidates who have A Level Maths grade C or below:**

(i) All candidates shall take the following compulsory module:

Code	Descriptive title	Total Credits	Credits Sem 1	Credits Sem 2	Level
NES1405	Mathematical Skills for Chemists	10	10		4

(ii) All candidates shall take 10 credits of optional modules normally selected from the following list:

Code	Descriptive title	Total Credits	Credits Sem 1	Credits Sem 2	Level
NES1005	Natural Science Research Impact	10		10	4
NES1206	Climate Change and the Earth System	10	10		4
NES1407	Introduction to Scientific Computing for Chemists	10		10	4
NES1408	Fundamentals of Biological Chemistry	10		10	4

**B. Candidates who have A Level Maths grade B or above:**

(i) All candidates shall take 20 credits of optional modules normally selected from the following list:

Code	Descriptive title	Total Credits	Credits Sem 1	Credits Sem 2	Level
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NES1005	Natural Science Research Impact	10		10	4
NES1206	Climate Change and the Earth System	10	10		4
NES1407	Introduction to Scientific Computing for Chemists	10		10	4
NES1408	Fundamentals of Biological Chemistry	10		10	4

## 2. Stage 2

(a) All candidates shall take the following compulsory modules:

<i>Code</i>	<i>Descriptive title</i>	<i>Total Credits</i>	<i>Credits Sem 1</i>	<i>Credits Sem 2</i>	<i>Level</i>
NES2202	Sustainable Solutions	10	10		5
NES2400	Chemical Laboratory Skills 2	20	10	10	5
NES2401	Structural Chemistry	10	10		5
NES2402	Organic Chemistry	20	10	10	5
NES2403	Inorganic Chemistry	20	10	10	5
NES2404	Physical Chemistry	20	10	10	5

(b) All candidates shall take 20 credits of optional modules normally selected from the following list:

<i>Code</i>	<i>Descriptive title</i>	<i>Total Credits</i>	<i>Credits Sem 1</i>	<i>Credits Sem 2</i>	<i>Level</i>
NES2405	Medicinal Chemistry	10		10	5
NES2406	Scientific Computing for Chemists	10		10	5
NES2408	Chemistry of the Atmosphere	10		10	5

To progress to Stage 3 of this degree programme, candidates are required to obtain an average over all modules taken at Stage 2 of at least 55.

## 3. Stage 3

(a) All candidates shall take the following compulsory modules:

<i>Code</i>	<i>Descriptive title</i>	<i>Total Credits</i>	<i>Credits Sem 1</i>	<i>Credits Sem 2</i>	<i>Level</i>
NES3400	Chemistry Laboratory Skills 3P	20	10	10	6
NES3401	Professional Development and Employability Skills for Chemists	10	10		6
NES3402	Advanced Organic Chemistry	20	10	10	6
NES3403	Advanced Inorganic Chemistry	20	10	10	6
NES3404	Physical and Computational Chemistry	20	10	10	6
NES3408	Advanced Structural Chemistry	10	10		6
NES3410	Analytical Chemistry in Practice	20		20	6

In order to progress to Stage 4, candidates must achieve a module mark of at least 40 in each module at the first attempt.

#### 4. Stage 4

(a) All candidates shall take the following compulsory modules:

<i>Code</i>	<i>Descriptive title</i>	<i>Total Credits</i>	<i>Credits Sem 1</i>	<i>Credits Sem 2</i>	<i>Level</i>
NES8400	Research Project	70	10	60	7
NES8401	Advanced Problem Solving	10	10		7

(b) All candidates shall take 40 credits of optional modules normally selected from the following list:

<i>Code</i>	<i>Descriptive title</i>	<i>Total Credits</i>	<i>Credits Sem 1</i>	<i>Credits Sem 2</i>	<i>Level</i>
NES8402	Selectivity and Stereocontrol in Organic Synthesis	10	10		7
NES8403	Advanced Methods in Chemical Biology and Drug Discovery	10	10		7
NES8404	Pericyclic and Radical Reactions	10	10		7
NES8405	Chemistry far from Equilibrium	10	10		7
NES8406	Contemporary Catalysis: Principles and Applications	10	10		7
NES8407	Modern aspects of Inorganic Chemistry	10	10		7
NES8408	Energy and Materials	10	10		7

With the approval of the Degree Programme Director, an alternative module to those listed above may be selected to the value of 10 credits.

#### 5. Assessment methods

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

#### 6. Degree classification

Candidates will be assessed for degree classification on the basis of all the modules taken at Stages 2, 3 and 4 with the weighting of the stages being 1:2:2 for Stages 2, 3 and Stage 4 respectively.