

## Programme Regulations: 2026/27

### Programme Titles:

**Degree of Master of Chemistry with Honours in Chemistry with Medicinal Chemistry - UCAS Code: F123**

**Degree of Master of Chemistry with Honours in Chemistry with Medicinal Chemistry with Industrial Training - Internal Code: 1960U (For students who commenced study prior to September 2025 - UCAS Code: F124)**

**Degree of Master of Chemistry with Honours in Chemistry with Medicinal Chemistry with Study Abroad - Internal Code: 1958U (For students who commenced study prior to September 2025 - UCAS Code: F156)**

### 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 of a three-year BSc. Honours degree in Chemistry they may transfer to the programme at any time before the start of Stage 3.*
- (v) *If a candidate fails to meet the requirements for the MChem degree, they may be transferred to the appropriate BSc.*
- (vi) *All modules are delivered in Linear mode unless stated otherwise as Block, e-Learning or distance learning.*
- (vii) *Programme transfers for Student Visa students may be restricted. 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
NES1408	Fundamentals of Biological Chemistry	10		10	4

(i) **Candidates who have A Level Maths grade C or below:** All candidates shall take the following compulsory module:

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

- (ii) **Candidates who have A Level Maths grade B or above:** All candidates shall take 10 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>
NES1407	Introduction to Scientific Computing for Chemists	10		10	4
PHY1021	Introductory Astrophysics	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
NES2405	Medicinal Chemistry	10		10	5

- (b) All candidates shall take 10 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>
NES2406	Scientific Computing for Chemists	10		10	5
NES2407	Applied Computational Medicinal Chemistry	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 50.

## 3. Stage 3

- (a) MChem with Medicinal Chemistry (F123) – 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>
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
NES3405	Advanced Medicinal Chemistry	20	10	10	6
NES3408	Advanced Structural Chemistry	10	10		6
NES3409	Chemistry Laboratory Skills 3M	20	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.

- (b) **MChem Chemistry with Medicinal Chemistry with Study Abroad** (1958U , 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>Credits Sem 3</i>	<i>Level</i>
NES3406	Advanced Organic Chemistry (Distance Learning)	20	10	10		6
NES3407	Advanced Inorganic Chemistry (Distance Learning)	20	10	10		6
NES3412	Project Abroad	80	40	35	5	7

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

- (c) **MChem Chemistry with Medicinal Chemistry with Industrial Placement** (1960U ) programme, 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>
NES3406	Advanced Organic Chemistry (Distance Learning)	20	10	10	6
NES3407	Advanced Inorganic Chemistry (Distance Learning)	20	10	10	6
NES3411	Project in Industry	80	40	40	7

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) **MChem with Medicinal Chemistry** programmes:

- (i) 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
NES8403	Advanced Methods in Chemical Biology and Drug Discovery	10	10		7

- (ii) All candidates shall take 30 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
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
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With the approval of the Degree Programme Director, an alternative module to those listed above may be selected to the value of 10 credits.

**(b) MChem Chemistry with Medicinal Chemistry with Study Abroad and Industrial Placement programmes:**

(i) 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>
NES3405	Advanced Medicinal Chemistry	20	10	10	6
NES8400	Research Project	70	10	60	7
NES8401	Advanced Problem Solving	10	10		7
NES8403	Advanced Methods in Chemical Biology and Drug Discovery	10	10		7

(ii) All candidates shall take 10 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>
NES3408	Advanced Structural Chemistry	10	10		6
NES8402	Selectivity and Stereocontrol in Organic Synthesis	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.