

Programme Regulations: 2025/26

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>
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 55.

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 or F156), 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 or F124) 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.

5. 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

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.

6. Assessment methods

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

7. 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.