

Programme Regulations: 2024/25

Programme Title:

Degree of Bachelor of Science with Honours in Chemistry with Study Abroad - UCAS Code F109

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 fails to meet the requirements for the four year degree MChem Honours in Chemistry (F107), they may be transferred to this 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.*
- (vi) *All modules are delivered in Linear mode unless stated otherwise as Block, eLearning or distance learning.*

1. Stage 1

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> |
|-------------|-------------------------------------|----------------------|----------------------|----------------------|--------------|
| 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 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> |
|-------------|----------------------------------|----------------------|----------------------|----------------------|--------------|
| NES1405 | Mathematical Skills for Chemists | 10 | 10 | | 4 |

- (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> |
|-------------|---|----------------------|----------------------|----------------------|--------------|
| 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:

| <i>Code</i> | <i>Descriptive title</i> | <i>Total Credits</i> | <i>Credits Sem 1</i> | <i>Credits Sem 2</i> | <i>Level</i> |
|-------------|---|----------------------|----------------------|----------------------|--------------|
| 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> | <i>Type</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 |

3. Intercalating Year for F109

On completion of Stage 2 and before entering Stage 3, all candidates taking the BSc degree with Honours in Chemistry with Study Abroad shall spend one year in a host institution approved by the Degree Programme Director.

All intercalating students shall take the following compulsory module:

| <i>Code</i> | <i>Descriptive title</i> | <i>Total Credits</i> | <i>Credits Sem 1</i> | <i>Credits Sem 2</i> | <i>Level</i> |
|-------------|---|----------------------|----------------------|----------------------|--------------|
| NES3414 | Intercalating Module for BSc Study Abroad | 120 | 60 | 60 | 6 |

4. 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 |

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 and 3, with the weighting of the stages being 1:2 for Stages 2 and 3 respectively.