Programme Regulations: 2022/23
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*
CHY1010	Chemical Skills and Professionalism	10	10		4
CHY1110	Fundamentals of Organic Chemistry	20	10	10	4
CHY1200	General Chemistry	10	10		4
CHY1211	Fundamentals of Physical Chemistry	20		20	4
CHY1310	Fundamentals of Inorganic Chemistry	20	10	10	4
CHY1510	Chemical Laboratory Skills 1	20	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*
CHY1000	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*
ACE1057	Natural Science Research Impact	10		10	4
CEG1601	Earth System Science	10	10		4
CHY1610	Introduction to Scientific Computing for Chemists	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*
ACE1057	Natural Science Research Impact	10		10	4
BIO1021	Diversity of Life: Form and Function	20	10	10	4
CEG1601	Earth System Science	10	10		4
CHY1610	Introduction to Scientific Computing for Chemists	10		10	4

2. Stage 2

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

Code	*Descriptive title*	*Total Credits*	*Credits Sem 1*	*Credits Sem 2*	*Level*
ACE2077	Sustainable Solutions	10	10		5
CHY2010	Structural Chemistry	10	10		5
CHY2110	Organic Chemistry	20	10	10	5
CHY2210	Physical Chemistry	20	10	10	5
CHY2310	Inorganic Chemistry	20	10	10	5
CHY2510	Chemical Laboratory Skills 2	20	10	10	5

(ii) 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*
CHY2700	Chemistry of the Atmosphere	10		10	5
CEG2604	Global Element Cycling	10		10	5
CHY2410	Medicinal Chemistry	10		10	5
CHY2610	Scientific Computing for Chemists	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:

Code	*Descriptive title*	*Total Credits*	*Credits Sem 1*	*Credits Sem 2*	*Level*
CHY3010	Advanced Structural Chemistry	10	10		6
CHY3012	Professional Development and Employability Skills for Chemists	10	10		6
CHY3111	Advanced Organic Chemistry	20	10	10	6
CHY3210	Physical and Computational Chemistry	20	10	10	6
CHY3310	Advanced Inorganic Chemistry	20	10	10	6
CHY3510	Chemistry Laboratory Skills 3P	20	10	10	6
CHY3511	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:

Code	*Descriptive title*	*Total Credits*	*Credits Sem 1*	*Credits Sem 2*	*Level*
CHY8430	Advanced Problem Solving	10	10		7
CHY8511	Research Project	70	10	60	7

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

Code	*Descriptive title*	*Total Credits*	*Credits Sem 1*	*Credits Sem 2*	*Level*
CHY8420	Selectivity and Stereocontrol in Organic Synthesis	10	10		7
CHY8421	Advanced Methods in Drug Discovery	10	10		7
CHY8422	Pericyclic and Radical Reactions	10	10		7
CHY8423	Chemistry far from Equilibrium	10	10		7
CHY8424	Contemporary Catalysis: Principles and Applications	10	10		7
CHY8425	Exploring d and f block chemistry: Applications and Structural Methods	10	10		7
CHY8428	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.