Programme Regulations: 2023/24

Programme Title: Degree of Master of Science in Chemistry
Code: 5371F

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 must take.

(iv) All modules are delivered in Linear mode unless stated otherwise as Block, eLearning or distance learning.

(v) Please discuss with the Degree Programme Director before choosing your optional modules.

Programme Structure

(a) The programme is available for study in full-time mode only.

(b) The period of study for full-time mode shall be one year starting in September. The 60 credit project will begin once suitable training has been received and appropriate modules completed.

(c) The programme comprises modules to a credit value of 180.

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

Code	*Descriptive title*	*Total Credits*	*Credits S1*	*Credits S2*	*Credits S3*	*Level*	*Mode*
NES8800	Research Skills and Development	20		20		7	
NES8808	Synthetic Methodology for Drugs	20	20			7	
NES8810	Recent Advances in Chemistry Research	20	10	10		7	Linear in Semester 1 and block/linear in Semester 2
NES8811‡	Contemporary Inorganic and Physical Chemistry	20	10	10		7	
NES8002	Research Dissertation Project	60		5	55	7	

‡ Previous BSc graduates of Newcastle University will not take NES8811 Contemporary Inorganic and Physical Chemistry.

(e) *Semester 1 optional modules*

(i) Non BSc Chemistry Newcastle University Candidates shall take 20 credits of optional modules in Semester 1 from the following list:

(ii) Previous BSc Chemistry graduates of Newcastle University shall take 30 credits of optional modules in Semester 1 from the following list:

Code	*Descriptive title*	*Total Credits*	*Credits S1*	*Credits S2*	*Credits S3*	*Level*	*Mode*
NES8405	Chemistry Far From Equilibrium	10	10			7	
NES8406	Contemporary Catalysis: Principles and Applications	10	10			7	
NES8407	Exploring d and f block chemistry: applications and structural methods	10	10			7	
NES8408	Energy and Materials	10	10			7	
NES8804	Proteins as Drug Targets: structure, function, and molecular modelling	10	10			7	

NES8806	Selectivity and Stereocontrol in Organic Synthesis	10	10			7	
NES8807	Pericyclic and radical reactions	10	10			7	

(f) *Semester 2 optional modules*

(i) Non BSc Chemistry Newcastle University Candidates shall take 20 credits of optional modules in Semester 2 from the following list:

(ii) Previous BSc Chemistry graduates of Newcastle University shall take all 30 credits from the following list:

Code	*Descriptive title*	*Total Credits*	*Credits S1*	*Credits S2*	*Credits S3*	Level	Mode
SPG8007	Renewable Energy: Technology for circular and hydrogen economies	10		10		7	Block
NES8805	Bioactive Natural Products	10		10		7	
NES8809	Biopharmaceuticals and Therapeutics	10		10		7	

* Please discuss with the Degree Programme Director before choosing your modules.

2. Assessment methods

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