



SCHOOL OF NATURAL AND
ENVIRONMENTAL SCIENCES

CHEMISTRY DEGREE PROGRAMME
Supplement
to the

UNDERGRADUATE DEGREE
PROGRAMME HANDBOOK

YEAR 2024 - 2025

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INTRODUCTION

Dr Nick Walker <nick.walker@newcastle.ac.uk>, Degree Programme Director (DPD) for undergraduate degrees in Chemistry writes....

“Welcome to the new academic year. I am delighted that you have chosen to begin, or to continue your study with us in 24/25. Whether you are joining us in Stage 1, or continuing study into Stages 2,3 or 4, I hope this year proves enjoyable and rewarding.

Please take the time to meet your personal tutor on a regular basis. Please familiarise yourself with the rights and responsibilities of students as described in Newcastle University’s Student Charter (link below).

I hope you have a great year, foster friendships that will last a lifetime and enjoy your studies. A list of staff (structured according to the teaching schedule) is provided over the next few pages.”

VITAL INFORMATION

Student Contract and Charter

<https://www.ncl.ac.uk/student-welcome/regulations/student%20charter/>

The Student Charter was developed jointly by Newcastle University and the Students’ Union and sets out the rights and responsibilities of all our students.

Module Catalogue:

<https://www.ncl.ac.uk/module-catalogue/>

The Module Catalogue (search the linked catalogue for details of a specific module) provides fine detail of topics covered by each module. Each module description provides the reading list for the module, lists the staff teaching on the module, and explains whether the assessment will involve an in-course assessment, a written exam, or an oral presentation, for example. Any additional questions about an individual module can be directed to the module leader listed on the online module description.

Degree Programme Regulations: <https://www.ncl.ac.uk/epgs/modules-and-programmes/regulations-specifications/>

The Programme Regulations provide information about the weighting of different Stages and modules within your Chemistry degree programme. Passing a stage of study will require you to pass 120 credits of modules. A module worth 20 or 30 credits carries more timetabled classes and a higher assessment weighting than a module worth 10 credits. If you must achieve a certain mark or pass a specific module to progress to the next stage of study, the programme regulations will report this. The programme regulations will also report which modules you will study and when you will study them.

You must submit a DPD form if you wish to switch onto a different degree programme. The form (and a link for submission of the form) is available here;

<https://ncl.instructure.com/courses/33032/pages/dpd-request-form-for-changes-to-your-programme>

University Regulations:

[University Regulations 2023/24 - University Regulations - Newcastle University \(ncl.ac.uk\)](https://www.ncl.ac.uk/university-regulations-2023-24)

Describes the rules that govern progression and degree classification at Newcastle University.

CHEMISTRY STAFF KEY CONTACTS

These members of staff have key responsibilities for teaching and learning in undergraduate chemistry degrees.

Degree Programme Directors (UG Chemistry)	Dr. Nick R. Walker Dr. Zuleykha McMillan
Senior Tutors	Dr. Matthew Hopkinson Dr. Cristina Navarro Reguero
Chair of Board of Studies in Chemistry	Dr. Ian R. Hardcastle
Chair of Board of Examiners in Chemistry	Dr. Hanno Kossen
Placement Organiser (Industry)	Dr. Toni Carruthers
Placement Organiser (Study Abroad)	Dr. Fabio Cucinotta
Placement Support	Jazmine Bourke and Juliet Goss
Peer Mentoring Scheme Leader	Dr. Cristina Navarro Reguero
Student-Staff Committee	
Chair	To be announced
Secretary	To be announced
Staff Facilitator	Jazmine Bourke
Head of Chemistry (Research and Teaching)	Dr. Andrew R. Pike

These members of staff have broader responsibilities for Teaching and Learning in the School of Natural and Environmental Sciences;

Head of School	Prof. Andrew Benniston
Deputy Head of School	Prof. Pippa Moore
Director of Excellence in Learning and Teaching	Prof. Pippa Moore
Professional Services Staff	
School Managers	Tom Harding, Victoria Coulson
Education Manager	Karina Lee

If you have a query about teaching and learning on a chemistry degree, or you are not sure who to contact about your study, please email snesc.support@ncl.ac.uk which is monitored by Jazmine (Education Assistant) and Juliet (Education Administrator). They will respond or re-direct your enquiry to the most appropriate Chemistry contact.

You will find the module leaders of Chemistry modules over the next few pages. The alphabetically-ordered staff list (final page) will include the name of your personal tutor.

Stage 1 – Module Leaders

Semester 1 Modules (September – January)			
Module Code	Module Title	Module Leader	Email address
NES1405	Mathematical Skills for Chemists	Prof MR Probert	michael.probert@ncl.ac.uk
NES1401	Chemical Skills and Professionalism	Dr AR Pike	andrew.pike@ncl.ac.uk
NES1406	General Chemistry	Dr NR Walker	nick.walker@ncl.ac.uk

Semester 1/2 Modules (September – June)			
Module Code	Module Title	Module Leader	Email address
NES1402	Fundamentals of Organic Chemistry	Dr JG Knight	julian.knight@ncl.ac.uk
NES1403	Fundamentals of Inorganic Chemistry	Dr H Kossen	hanno.kossen@ncl.ac.uk
NES1400	Chemistry Laboratory Skills 1	Dr Z McMillan	zuleykha.mcmillan@ncl.ac.uk

Semester 2 Modules (January – June)			
Module Code	Module Title	Module Leader	Email address
NES1404	Fundamentals of Physical Chemistry	Dr BR Horrocks	ben.horrocks@ncl.ac.uk
NES1407	Introduction to Scientific Computing for Chemists	Dr JA Dawson	james.dawson@ncl.ac.uk
NES1408	Fundamentals of Biological Chemistry	Dr T McAllister	tom.mcallister@ncl.ac.uk

Stage 2 – Module Leaders

If you are studying on a “with Industrial Training” degree, Dr. A. Carruthers <toni.carruthers@ncl.ac.uk> will guide you through your application for a placement during Stage 2. Dr. F. Cucinotta <fabio.cucinotta@ncl.ac.uk> will guide you if you are studying on a “with Study Abroad” degree.

Semester 1 Modules (September – January)			
Module Code	Module Title	Module leader	Email address
NES2401	Structural Chemistry	Dr KJ Izod	keith.izod@ncl.ac.uk

Semester 1/2 Modules (September – June)			
Module Code	Module Title	Module leader	Email address
NES2402	Organic Chemistry	Prof DA Fulton	david.fulton@ncl.ac.uk
NES2404	Physical Chemistry	Dr BR Horrocks	ben.horrocks@ncl.ac.uk
NES2403	Inorganic Chemistry	Dr KJ Izod	keith.izod@ncl.ac.uk
NES2400	Chemistry Laboratory Skills 2	Dr JE Eriksson	johan.eriksson@ncl.ac.uk

Semester 2 Modules (January – June)			
Module Code	Module Title	Module leader	Email address
NES2405	Medicinal Chemistry	Dr C Cano	celine.cano@ncl.ac.uk
NES2406	Scientific Computing for Chemists	Dr DJ Cole	daniel.cole@ncl.ac.uk
NES2407	Applied Computational Medicinal Chemistry	Dr AK Bronowska	agnieszka.bronowska@ncl.ac.uk
NES2408	Chemistry of the Atmosphere	Dr F Cucinotta	fabio.cucinotta@ncl.ac.uk

Stage 3 – Module Leaders

If you are studying on a “with Industrial Training” degree, Dr. A. Carruthers <toni.carruthers@ncl.ac.uk> will support your study during your Stage 3 placement. Dr. F. Cucinotta <fabio.cucinotta@ncl.ac.uk> will support you if you are studying on a “with Study Abroad” degree.

Semester 1 Modules (September – January)			
Module Code	Module Title	Module leader	Email address
NES3408	Advanced Structural Chemistry	Prof MR Probert	michael.probert@ncl.ac.uk
NES3401	Professional Development and Employability Skills for Chemists	Dr LJ Higham	lee.higham@ncl.ac.uk

Semester 1/2 Modules (September – June)			
Module Code	Module Title	Module leader	Email address
NES3406	Advanced Organic Chemistry (Distance Learning)	Dr MJ Hall	michael.hall@ncl.ac.uk
NES3402	Advanced Organic Chemistry	Dr MJ Hall	michael.hall@ncl.ac.uk
NES3404	Physical and Computational Chemistry	Dr BR Horrocks	ben.horrocks@ncl.ac.uk
NES3407	Advanced Inorganic Chemistry (Distance Learning)	Prof A Houlton	andrew.houlton@ncl.ac.uk
NES3403	Advanced Inorganic Chemistry	Prof A Houlton	andrew.houlton@ncl.ac.uk
NES3405	Advanced Medicinal Chemistry	Dr C Cano	celine.cano@ncl.ac.uk
NES3400	Chemistry Laboratory Skills 3P	Dr Z McMillan	zuleykha.mcmillan@ncl.ac.uk
NES3409	Chemistry Laboratory Skills 3M	Dr Z McMillan	Zuleykha.mcmillan@ncl.ac.uk

Semester 1/2/3 Modules (January – August)			
Module Code	Module Title	Module leader	Email address
NES3412	Project Abroad	Dr F Cucinotta	fabio.cucinotta@ncl.ac.uk
NES3411	Project in Industry	Dr A Carruthers	toni.carruthers@ncl.ac.uk

Semester 2 Modules (January – June)			
Module Code	Module Title	Module leader	Email address
NES3410	Analytical Chemistry in Practice	Prof DA Fulton	david.fulton@ncl.ac.uk

Intercalating module (ICM0026) taken by students on F102 or F122 during their 3rd year of study

Semester 1/2 Modules (September – June)			
Module Code	Module Title	Module leader	Email address
NES3413	Intercalating Module for F102/F122	Dr LJ Higham	lee.higham@newcastle.ac.uk

Intercalating module (ICM0026) taken by students on F109 or F155 during their 3rd year of study

Semester 1/2 Modules (September – June)			
Module Code	Module Title	Module leader	Email address
NES3414	Intercalating Module for BSc Study Abroad	Dr F Cucinotta	fabio.cucinotta@ncl.ac.uk

Stage 4 – Module Leaders

Semester 1 Modules (September – January)			
Module Code	Module Title	Module leader	Email address
NES8402	Selectivity & Stereocontrol Organic Synthesis	Dr JG Knight	julian.knight@ncl.ac.uk
NES8403	Advanced Methods in Drug Discovery	Dr IR Hardcastle	ian.hardcastle@ncl.ac.uk
NES8404	Pericyclic and Radical Reactions	Dr MJ Hall	michael.hall@ncl.ac.uk
NES8405	Chemistry Far from Equilibrium	Dr AE Carruthers	toni.carruthers@ncl.ac.uk
NES8406	Contemporary Catalysis	Dr S Doherty	simon.doherty@ncl.ac.uk
NES8407	Exploring d- and f-Block Chemistry	Dr KJ Izod	keith.izod@ncl.ac.uk
NES8408	Energy & Materials	Prof E Gibson	elizabeth.gibson@ncl.ac.uk
NES8401	Advanced Problem Solving	Dr JE Eriksson	johan.eriksson@ncl.ac.uk

Semester 1 and 2			
Module Code	Module Title	Module leader	Email address
NES8400	Research Project	Dr Z. McMillan	zuleykha.mcmillan@ncl.ac.uk

CHEMISTRY STAFF – ALPHABETICAL LISTING

Academic staff	Room	Email address
Dr R Armstrong	2.67	roly.armstrong@ncl.ac.uk
Prof AC Benniston	2.27	andrew.benniston@ncl.ac.uk
Dr A Bronowska	3.35	agnieszka.bronowska@ncl.ac.uk
Dr C Cano	3.66 (3 rd Floor)	celine.cano@ncl.ac.uk
Dr MA Carroll	3.39 (3 rd Floor)	michael.carroll@ncl.ac.uk
Dr A Carruthers	2.65	toni.carruthers@ncl.ac.uk
Dr D Cole	2.29	daniel.cole@ncl.ac.uk
Dr F Cucinotta	3.45	fabio.cucinotta@ncl.ac.uk
Dr J Dawson	3.41	james.dawson@ncl.ac.uk
Dr S Doherty	1.33	simon.doherty@ncl.ac.uk
Dr RJ Errington	1.30A	john.errington@ncl.ac.uk
Dr J Eriksson	2.41C	johan.eriksson@ncl.ac.uk
Prof M Freitag	3.47B	marina.freitag@ncl.ac.uk
Prof. DA Fulton	3.43	david.fulton@ncl.ac.uk
Prof E Gibson	3.46	libby.gibson@ncl.ac.uk
Prof BT Golding	3.39	bernard.golding@ncl.ac.uk
Dr MJ Hall	3.36	michael.hall@ncl.ac.uk
Dr IR Hardcastle	3.57 (3 rd Floor)	ian.hardcastle@ncl.ac.uk
Dr K Harris	2.28	kate.harris@ncl.ac.uk
Dr LJ Higham	3.40	lee.higham@ncl.ac.uk
Dr M Hopkinson	2.66	matthew.hopkinson@ncl.ac.uk
Dr BR Horrocks	1.62A	ben.horrocks@ncl.ac.uk
Prof A Houlton	1.62C	andrew.houlton@ncl.ac.uk
Dr KJ Izod	1.34	keith.izod@ncl.ac.uk
Prof A Kawamura	3.11	akane.kawamura@ncl.ac.uk
Dr J Knight	2.28	james.knight2@ncl.ac.uk
Dr JG Knight	3.47	julian.knight@ncl.ac.uk
Dr H Kossen	2.68	hanno.kossen@ncl.ac.uk
Dr IB Magdău	3.37	ioan.magdau@ncl.ac.uk
Dr T McAllister	2.69	tom.mcallister@ncl.ac.uk
Dr Z McMillan	2.50	zuleykha.mcmillan@ncl.ac.uk
Dr C Navarro Reguero	2.61A	crisrina.navarro-reguero@newcastle.ac.uk
Prof T Penfold	2.27	tom.penfold@ncl.ac.uk
Dr AR Pike	2.63	andrew.pike@ncl.ac.uk
Prof MR Probert	G.64	michael.probert@ncl.ac.uk
Dr N Walker	2.64	nick.walker@ncl.ac.uk
Prof M Waring	3.58C	mike.waring@ncl.ac.uk
Bedson Teaching Technical Services		
Dr P Evans	2.02	peter.evans2@ncl.ac.uk
C Hunter	2.09	carolyn.hunter@ncl.ac.uk
Outreach Officer		
Dr P Hoare		peter.hoare@ncl.ac.uk

MAPS AND DIRECTIONS

All Chemistry staff offices are in the Bedson Building. These directions assume that you enter the Bedson Building via Entrance 2, the "Delivery Point" (which faces the Students' Union Building). There is a lift which you can use as an alternative to the stairs if you wish (immediately next to the stairs). Please help the environment and use the stairs.

TUTOR OFFICES ON G. LEVEL

Prof MR Probert	G.64
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Go up the stairs in front of you to the "G" level, turn right as you leave the stairs. Prof. Probert's office is at the end of the corridor.

TUTOR OFFICES ON LEVEL 1

Dr RJ Errington	1.30A
Dr S Doherty	1.33
Dr KJ Izod	1.34

Go up the stairs in front of you to Level 1, turn right when you leave the stairs, let the room numbering system guide you, and keep going until you find your tutor's office (you will need to pass through 3 long corridors to find Dr. Izod, Doherty and Errington).

Prof A Houlton	1.62C
Dr B Horrocks	1.62A

Go up the stairs in front of you to Level 1, turn left when you leave the stairs, and keep going until you reach the door to the "nano corridor", to which access is restricted. You will need to contact Prof. Houlton or Dr. Horrocks in advance, either by phone or by e-mail, to ask to be let through the swipe-card activated door.

TUTOR OFFICES ON LEVEL 2

Prof T Penfold	2.27
Prof AC Benniston	2.27 (More often in AGRB.2.04)
Dr K Harris	2.28
Dr D Cole	2.29
Dr J Knight	2.31
Dr JE Eriksson	2.41C
Dr Z McMillan	2.50
Dr C Navarro-Reguero	2.61A
Dr AR Pike	2.63
Dr N Walker	2.64
Dr AE Carruthers	2.65
Dr M Hopkinson	2.66
Dr R Armstrong	2.67
Dr H Kossen	2.68
Dr T McAllister	2.69

Go up the stairs in front of you to Level 2.

For Dr. Walker, Pike, Navarro-Reguero, Carruthers, Hopkinson, Armstrong, Kossen and McAllister, turn left when you leave the stairs, walk 5 metres and go through the blue door

MAPS AND DIRECTIONS

on your right. Go through this door and then along the corridor; their offices are on the left. For Prof. Penfold, Benniston and Dr. Knight, Harris, keep going until you pass lockers and the entrance to the synthetic teaching lab, then turn right at the end of the corridor. Their offices are around the next corner. You will pass the offices for Dr. Eriksson and McMillan on your way, near the 2.51 seminar room.

TUTOR OFFICES ON LEVEL 3

Dr A Bronowska	3.35
Dr MJ Hall	3.36
Dr IB Magdău	3.37
Dr MA Carroll	3.39
Dr LJ Higham	3.40
Dr J Dawson	3.41
Prof DA Fulton	3.43
Dr F Cucinotta	3.45
Prof E Gibson	3.46
Dr JG Knight	3.47
Prof M Freitag	3.47B

Go up the stairs in front of you to Level 3. For all the above, turn left at the top of the stairs, go past the lift and around the corner. The offices of these staff are on the next corridor.

Prof A Kawamura	3.11
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Go up the stairs in front of you to Level 1. Turn right at the top of the stairs, walk the length of the corridor, turn right at the end, and walk down the next corridor. You will now be at the opposite corner of the building from the one at which you started. Go up the stairs to Level 3. Prof. Kawamura's office is through the door on the left. This door is swipe card activated so you will need to contact Prof. Kawamura in advance, either by phone or by e-mail, to ask to be let through.

Dr IR Hardcastle	3.57
Prof M Waring	3.58C
Dr C Cano	3.66

Go up the stairs in front of you to Level 3. Dr. Hardcastle's office is right at the top of the stairs. For Dr. Cano and Prof. Waring, turn right at the top of the stairs - their offices are behind a door which you won't be able to open. Please ring the doorbell.

OUR LEARNING COMMUNITY

Peer Mentors

Through direct access to the advice and support of a more experienced peer during the first semester, we support you with your transition to university. Peer mentors are student volunteers who are usually in Stage 2 or 3. They receive training before starting their role and are supported throughout the scheme by Dr. Cristina Navarro-Reguero. Peer Mentoring begins when mentors contact their mentees before the start of their programme, with an initial meeting taking place during Welcome Week. Mentors will then arrange further meetings throughout the first semester.

Staff-Student Committee

The Chemistry staff-student committee is chaired by a current student and supported by the Newcastle University Students' Union. If you do not know your student representatives, please contact snes.cc.support@newcastle.ac.uk and ask for their details. Please raise questions or problems with student representatives if you are keen to offer your opinions and suggestions about the timetable, administration, teaching or assessment of Chemistry degrees.

The committee typically comprises 2 or 3 students from each stage of study. Staff including Dr. Nick Walker (Degree Programme Director), Dr. Ian Hardcastle (Chair of Board of Studies), Dr. Cristina Navarro-Reguero and Dr. Matthew Hopkinson (Senior Tutors) attend meetings alongside representatives from the NU Careers Service, Library and IT Services.

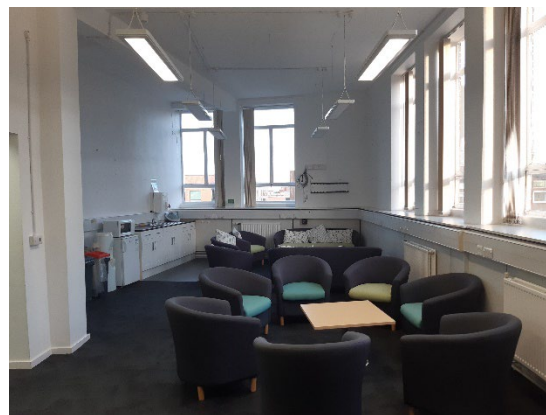
School Ambassadors

Each year the School recruits a team of Student Ambassadors to represent the School at various events such as the Post-Application Open Days ('UCAS Open Days') which run on some Tuesdays, Thursdays and Saturdays between February and March. The Ambassadors receive training for this rewarding role. Students are asked to contact staff in the Bedson building office if they wish to volunteer.

Nu:Kem

Students run their own Chemistry society 'Nu:Kem'. This society organises seminars and social and sports activities. There are representatives from undergraduates and postgraduates on the Nu:Kem committee.

UG Student Social Space (on Level 2 of Bedson Building)



STUDENT PRIZES

A number of prizes are awarded at the end of the academic year. The awards of the prizes will be considered by members of the School Teaching Committee who will make their recommendations to the Head of School.

Neil Hughes Prize	For Contributions to the School
Stage 1	
Stage 1 Chemistry Excellence Prize	Meritorious performance at Stage 1 (Top stage 1 student)
SCI Prize	Meritorious performance at Stage 1
Henry Croucher Memorial Prizes (x3)	Meritorious performance at Stage 1
Stage 2	
Stage 2 Chemistry Excellence Prize	Meritorious performance at Stage 2 (Top stage 2 student)
RSC Prize	Meritorious performance at Stage 2
SCI Prizes (x3)	Meritorious performance at Stage 2
Stage 3	
Stage 3 Chemistry Excellence Prize	Meritorious performance at Stage 3
Wynne-Jones Prize	Top BSc (Hons) student
Levin Prize	Meritorious performance at Stage 3
T G Pearson Prize	Meritorious performance at Stage 3
Johnston Prize	Meritorious performance during the placement year
John Muse Memorial Prize	Most improved performance between Stages 2 & 3
Stage 4	
Freire-Marreco Medal & Excellence Prize	Top Stage 4 MChem student
Stage 4 Chemistry Excellence Prize	Meritorious performance at Stage 4
Roger Griffin Prize	Top MChem Medicinal Chemistry student
Tony Gibbs Memorial Prize	Awarded annually to a fourth year student demonstrating excellence in their project report
Katie Bates	Top MChem Chemistry Final Project