UNIVERSITY OF NEWCASTLE UPON TYNE

FACULTY OF SCIENCE, AGRICULTURE & ENGINEERING

DEGREE PROGRAMME SPECIFICATION



1	Awarding institution	University of Newcastle upon Tyne
2	Teaching institution	University of Newcastle upon Tyne
3	Programme accredited by	
4	Final award	BSc (Honours)
5	Programme	Chemistry with European Studies (Spanish)
6	UCAS code	F1R9
7	Relevant QAA subject benchmarking group	Chemistry
8	Date of revision	September 2004

9 Programme Aims

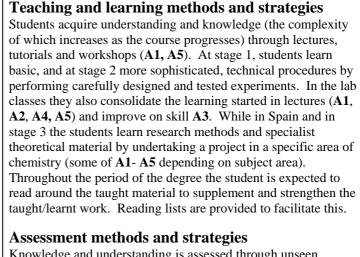
The degree programme aims to enthuse students to chemistry by educating them with a thorough understanding of organic, inorganic and physical chemistry; to demonstrate how chemical principles can be applied to processes and systems; to provide training in problem solving, communication skills, numeracy and information technology; to provide training in Spanish; to enable students to appreciate and gain knowledge of the Spanish culture, and to equip students with skills that enable them to pursue careers in chemistry-related disciplines or other professions.

10 Intended Learning Outcomes

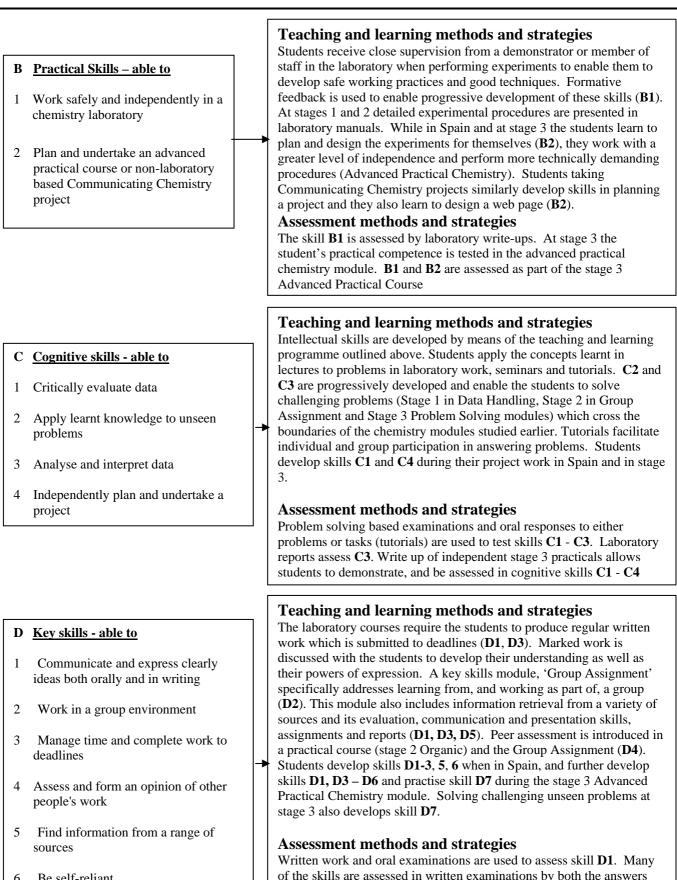
The programme provides opportunities for students to develop and demonstrate intended learning outcomes in the following areas:

A <u>Knowledge and</u> <u>understanding of</u>

- 1 The three main branches of chemistry (inorganic, physical & organic)
- 2 Practical laboratory chemistry
- 3 Data analysis and numeracy
- 4 Spectroscopy and chemical characterisation
- 5 Written and spoken Spanish



Knowledge and understanding is assessed through unseen written examinations and in-course assessments (A1, A3 - A5), answers to questions in practical reports (A2), oral examinations eg in the stage 3 practical (A2) and conversational Spanish (A5).



Spain evaluates skills **D1** - **D7**.

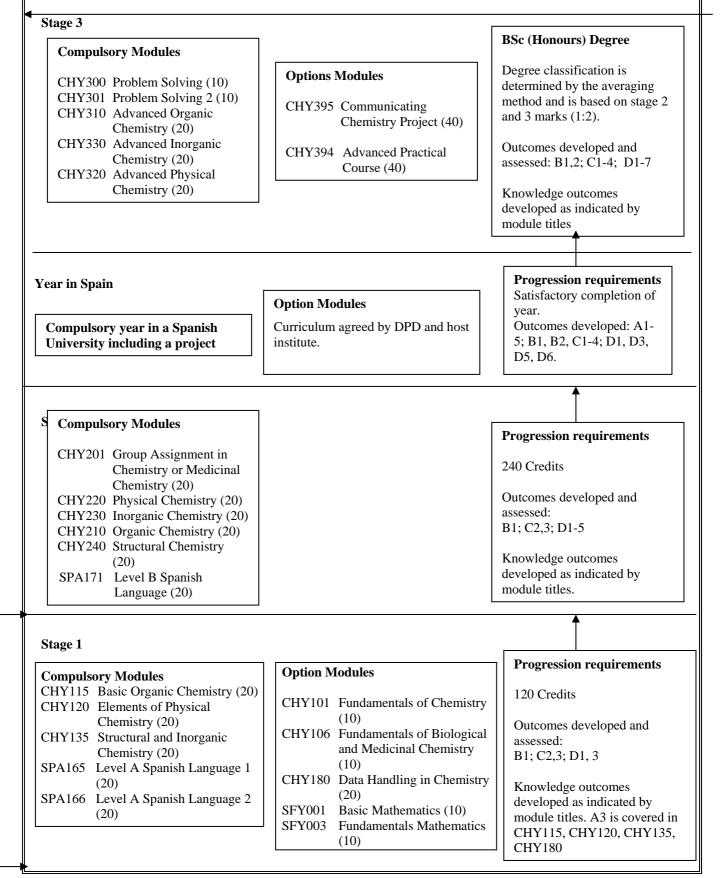
and the approach to question answering. Key skills **D1**, **D2**, **D5** are addressed in the 'Group Assignment' module by peer assessment of 7 Critically evaluate data and use when individual contributions to the group effort and of a group presentation. required. The stage Advanced Practical Chemistry module and the project in

Be self-reliant

6

11. Programme Features, Curriculum and Structure

The degree programme is offered full-time (4 years). Arrows indicate the entry and progression points. A number of option modules are open for each year of study and are chosen by the student in consultation with their personal tutor. The option modules at stage 1, allow students to take subjects that they have not studied before or further study subjects of interest. A special feature of the programme is that students who may not have previously studied Spanish learn the written and spoken language and spend a year in a Spanish University; an additional feature is the choice of either an Advanced Practical or a 'Communicating Chemistry' project at stage 3.



C Programme Curriculum

(Insert Regulations as given on University web site – currently being updated)

Development of specific Intended Learning Outcomes occurs through the following modules (compulsory modules in bold text, optional modules in normal, italic text)

A1: Inorganic, Organic, Physical Chemistry	СНУ101, СНУ115, СНУ120, СНУ135, СНУ180,
	CHY201, CHY210, CHY220, CHY230, CHY240,
	CHY300, CHY301, CHY310, CHY320, CHY330,
	СНҮ394, СНҮ395
A2: Practical laboratory chemistry	СНУ106, СНУ115, СНУ120, СНУ135, СНУ210,
	CHY220, CHY230, CHY240, CHY394,
A3: Data analysis and numeracy	СНУ101, СНУ115, СНУ120, СНУ135, СНУ180,
	CHY210, CHY220, CHY230, CHY240, CHY301,
	CHY310, CHY320, CHY330, CHY394
A4. Spectroscopy and chemical characterisation	СНУ101, СНУ120, СНУ135, СНУ201, СНУ210,
	CHY220, CHY230, CHY240, CHY300, CHY301,
	СНУ320, СНУ330, СНУ394
A5. Written and spoken Spanish	SPA165, SPA166, SPA171
31: Work safely and independently in a laboratory	СНУ106, СНУ115, СНУ120, СНУ135, СНУ210,
	СНУ220, СНУ230, , СНУ394
32: Plan and undertake an advanced practical course or non-	СНҮ394, СНҮ395
lab project	
C1. Critically evaluate data	СНҮ394, СНҮ395
C2. Apply learnt knowledge to unseen problems	СНУ101, СНУ106, СНУ115, СНУ120, СНУ135,
	CHY180, CHY201, CHY210, CHY220, CHY230,
	CHY240, CHY300, CHY301, CHY310, CHY320,
	CHY330
C3. Analyse and interpret data	CHY101, CHY106, CHY120, CHY135, CHY180,
	CHY201, CHY210, CHY220, CHY230, CHY240,
	CHY300, CHY301, CHY310, CHY320, CHY330,
	СНҮ394, СНҮ395
24. Independently plan and undertake a project	СНҮ394, СНҮ395
01. Communicate and express ideas orally and in writing	<i>CHY101, CHY106</i> , CHY115, CHY120, CHY135,
	CHY180, CHY201, CHY210, CHY220, CHY230,
	CHY240, CHY300, CHY301, CHY310, CHY320,
	СНҮ330, СНҮ394, СНҮ395
02. Work in a group environment	CHY201, CHY300, CHY301
D3. Manage time and complete work to deadlines	CHY115, CHY120, CHY135, CHY180, CHY201,
	CHY210, CHY220, CHY230, CHY240, CHY300,
	CHY301, CHY310, CHY320, CHY330, CHY394,
	СНҮ395
D4. Assess and form an opinion of other people's work	CHY201, CHY210, CHY394, CHY395
D5. Find information from a range of sources	CHY300, CHY301, CHY310, CHY320, CHY330,
	СНҮ394, СНҮ395
D6. Be self-reliant	СНУ394, СНУ395
D7. Critically evaluate data and use when required	CHY300, CHY301, CHY394, CHY395

12 Criteria for Admission:

Standard entrance criteria

Applicants for whom English is not their first language must provide evidence of a satisfactory command of English by means of an IELTS score of 6.5 or greater.

Applicants with non-standard qualifications

Applicants who hold non-standard qualifications will be considered on an individual basis.

Admissions Policy

Upon receipt of a UCAS application form offers of places are made to suitably qualified candidates. The standard offer for this programme is BCC including Chemistry at A Level. UK - based applicants are invited to visit Chemistry on an Open Day. During the day they will have a tour of Chemistry, the City and, weather permitting, the Campus. They are shown a purpose made video about studying chemistry at Newcastle and meet students and staff. They also attend an informal interview with a member of academic staff. Applicants not based in the UK are not required to attend for interview.

13 Support for Students and their Learning:

Induction

The first week of the first term/semester is an Induction Week with no formal teaching. During this period all students will be given detailed programme information relating to their Stage and the timetable of lectures/practicals/labs/ tutorials/etc. In particular all new students will be given general information about the School and their course, as described in the Degree Programme Handbook. The International Office offers an additional induction programme for overseas students (see http://www.ncl.ac.uk/international/coming_to_newcastle/orientation.phtml).

There is an Induction Week Programme in Natural Sciences which includes social events as well as informative presentations about the course, facilities and student support. Each student receives a Welcome Package, including book vouchers, laboratory coat, Periodic Table etc. Returning students also have induction week programmes.

Study skills support

Students will learn a range of Personal Transferable Skills, including Study Skills, as outlined in the Programme Specification.

Academic support

The initial point of contact for a student is with a lecturer or module leader, or their tutor (see below) for more generic issues. Thereafter the Degree Programme Director or Head of School may be consulted. Issues relating to the programme may be raised at the Staff/Student Committee, and/or at the Board of Studies.

Pastoral support

All students are assigned a personal tutor whose responsibility is to monitor the academic performance and overall well-being of their tutees. Details of the personal tutor system can be found at <u>http://www.ncl.ac.uk/undergraduate/support/tutor.phtml</u>. In addition the University offers a range of support services, including the Student Advice Centre, the Student Counselling Service, the Mature Student Support Service, and a Childcare Support Officer, see http://www.ncl.ac.uk/undergraduate/support/welfare.phtml.

Support for Special Needs

Support for students with special needs is provided as required and the University's Disability Support Service can be consulted where appropriate. For further details see <u>http://www.ncl.ac.uk/undergraduate/support/disability.phtml</u>.

Learning resources

The University's main learning resources are provided by the Robinson and Walton Libraries (for books, journals, online resources), and Information Systems and Services, which supports campus-wide computing facilities, see http://www.ncl.ac.uk/undergraduate/support/acfacilities.phtml.

All new students whose first language is not English are required to take an English Language test in the Language Centre. Where appropriate, in-sessional language training can be provided. The Language Centre houses a range of resources for learning other languages which may be particularly appropriate for those interested in an Erasmus exchanges. See http://www.ncl.ac.uk/undergraduate/support/langcen.phtml.

14 Methods for Evaluating and Improving the Quality and standards of Teaching and Learning:

Module reviews

All modules are subject to review by questionnaires which are considered by the Board of Studies. Changes to, or the introduction of new, modules are considered at the School Teaching and Learning Committee and at the Board of Studies. Student opinion is sought at the Staff/Student Committee and/or the Board of Studies. New modules and major changes to existing modules are subject to approval by the Faculty Teaching and learning Committee.

Programme reviews

Student opinion about the modules is gathered annually. All stages of the Programme are evaluated by means of module and Stage Reviews.

The School operates a system of Peer Observation of teaching activities following the Guidelines issued by the University's Quality and Standards Unit.

The Board of Studies conducts an annual review of the programme. The Board considers the comments and recommendations of the External Examiners. Graduate surveys are conducted for consideration. The Board will consider comments and recommendations arising from any subject reviews.

The Director of Teaching (who is also the Chair of the Board of Studies) and/or Degree Programme Director is available to discuss academic issues with students throughout the course with a view to improving the quality and standard of teaching and learning. The External Examiners confirm that the standards are appropriate on an annual basis.

The Board of Studies conducts an Annual Monitoring and Review of the degree programme and reports to Faculty Teaching and Learning Committee.

External examiner reports

External Examiner reports are considered by the Board of Studies under Reserved Business, in the absence of the student representatives. The Board responds to these reports through Faculty Teaching and Learning Committee.

Accreditation reports Not applicable

Student evaluations

All modules, and the degree programme, are subject to review by student questionnaires. Informal student evaluation is also obtained at the Staff/Student Committee, and the Board of Studies.

Feedback mechanisms

Feedback to students is effected via the Staff/Student Committee and the Board of Studies.

Faculty and University Review Mechanisms

The Programme is subject to the University's Internal Subject Review programme, see http://www.ncl.ac.uk/internal/academic-quality/qualityhome.htm#2

15 Regulation of Assessment:

Pass Marks

The pass mark, as defined in the University's Undergraduate Examination Conventions (http://www.ncl.ac.uk/calendar/university.regs/ugexamconv.html), is 40.

Course Requirements

Progression is subject to the University's Undergraduate Progress Regulations (<u>http://www.ncl.ac.uk/calendar/university.regs/ugcont.html</u>) and Undergraduate Examination Conventions (<u>http://www.ncl.ac.uk/calendar/university.regs/ugexamconv.html</u>). In summary, students must pass 120 credits at each Stage. Limited compensation down to 35 is possible at each Stage and there are resit opportunities, with certain restrictions.

Weighting of Stages Modules taken at Stages 2 and 3 are Honours modules and the two stages contribute to the award of the final degree in the ratio <2:1>.

Common Marking Scheme

The University employs a common marking scheme, which is specified in the Undergraduate Examination Conventions (http://www.ncl.ac.uk/calendar/university.regs/ugcont.html), namely

	Honours	Non-honours
<40	Fail	Failing
40-49	Third Class	Basic
50-59	Second Class, Second Division	Good
60-69	Second Class, First Division	Very Good
70+	First Class	Excellent

Role of the External Examiner

An External Examiner, a distinguished member of the subject community, is appointed by Faculty Teaching and Learning Committee, after recommendation from the Board of Studies. The External Examiner is expected to:

See and approve examination papers Moderate examination and coursework marking Attend the June Board of Examiners Report to the University on the standards of the programme

16 Indicators of Quality and Standards:

Professional Accreditation Reports *Not applicable*

Internal Review Reports

This programme was covered by the Internal Subject Review of Chemistry held on February 2003 and was subsequently approved by Faculty Teaching and Learning Committee and University Teaching and Learning Committee. The team was impressed by the very positive relationships between staff and students – it was abundantly clear that the subject group are very student-focused and this was to their significant credit.

Previous QAA Reports This programme received a QAA Subject Review in April 2004 and was judged to be Excellent/Satisfactory.

This specification provides a concise summary of the main features of the programme and of the learning outcomes that a typical student might reasonably be expected to achieve if she/he takes full advantage of the learning opportunities provided. The accuracy of the information contained is reviewed by the University and may be checked by the Quality Assurance Agency for Higher Education.

17 Other Sources of Information:

The University Prospectus (see http://www.ncl.ac.uk/undergraduate/)

The Departmental Prospectus (see http://www.ncl.ac.uk/undergraduate/subjects/xxx)

The University and Degree Programme Regulations (see <u>http://www.ncl.ac.uk/calendar/pdf/uniregs.pdf</u> and <u>http://www.ncl.ac.uk/calendar/sae/</u>)

The Degree Programme Handbook

QAA Subject Review Report